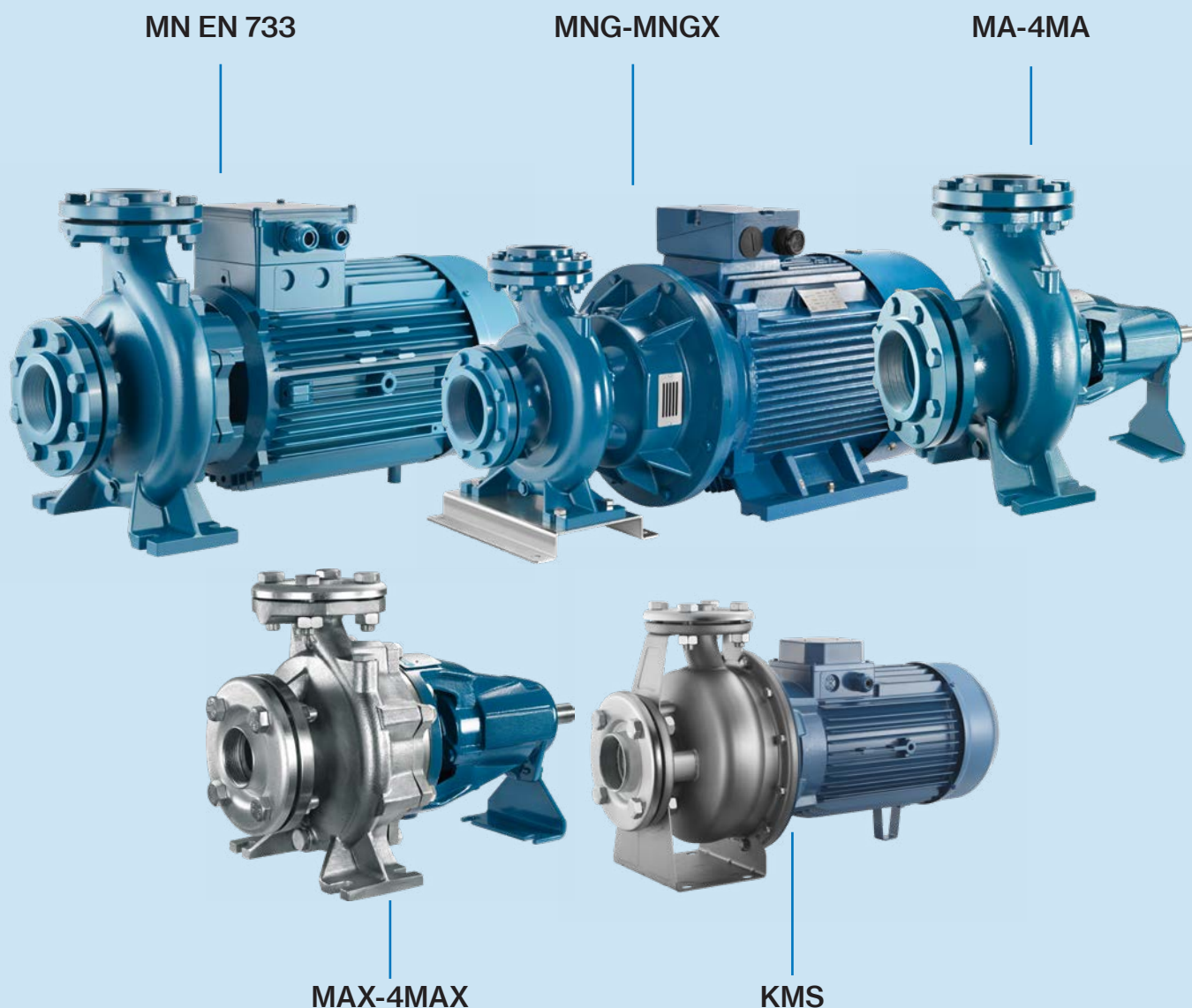


# CENTRIFUGAL FLANGED

# CENTRIFUGAL FLANGED PUMPS



Wide range of centrifugal free axle and monobloc pumps, flanged with axial suction with hydraulic part entirely made of cast iron (MN, MNG, MA), in Aisi 304 (KMS) and Aisi 316 (MAX).

## Applications:

- Water supply
- Pressurization
- Circulation of water in heating and air conditioning systems
- Fluid transfer in industry and agriculture

## 2 Poles

TYPE	PUMP			
	MN	MNG	MA	MAX
32-160C	●	×	●	●
32-160B	●	×	●	●
32-160A	●	×	●	●
32-200C	●	×	●	●
32-200B1	●	×	×	●
32-200B	●	×	●	●
32-200A1	●	×	×	●
32-200A	●	×	●	●
32-250C	●	×	●	●
32-250B	●	×	●	●
32-250A	●	×	●	●
40-125C	●	×	●	●
40-125B	●	×	●	●
40-125A	●	×	●	●
40-160B	●	×	●	●
40-160A	●	×	●	●
40-160AP	●	×	●	●
40-200B1	●	×	-	●
40-200B	●	×	●	●
40-200A1	●	×	×	●
40-200A	●	×	●	●
40-200AP	●	×	●	●
40-250C	●	×	●	●
40-250B	●	×	●	●
40-250A	●	×	●	●
40-250BM	●	×	●	●
40-250AM	●	×	●	●
50-125B	●	×	●	●
50-125A	●	×	●	●
50-160B1	●	×	×	●
50-160B	●	×	●	●
50-160A1	●	×	×	●
50-160A	●	×	●	●
50-200C	●	×	●	●
50-200B	●	×	●	●
50-200A	●	×	●	●
50-250C	●	×	●	●
50-250B	●	×	●	●
50-250A	●	×	●	●
50-315DN	×	×	●	×
50-315CN	×	×	●	×
50-315BN	×	×	●	×
50-315AN	×	×	●	×
65-125B1	●	×	×	●
65-125B	●	×	●	●
65-125A1	●	×	×	●
65-125A	●	×	●	●
65-160C	●	×	●	●
65-160B	●	×	●	●
65-160A	●	×	●	●
65-200C	●	×	●	●
65-200B	●	×	●	●
65-200A	●	×	●	●
65-250B	●	×	●	●
65-250A	●	×	●	●
65-315CN	×	×	●	×
65-315BN	×	×	●	×
65-315AN	×	×	●	×

TYPE	PUMP			
	MN	MNG	MA	MAX
80-160E	●	×	●	●
80-160D	●	×	●	●
80-160C	●	×	●	●
80-160B	●	×	●	●
80-160A	●	×	●	●
80-200B	●	×	●	●
80-200A	●	×	●	●
80-250B	×	●	●	●
80-250A	×	●	●	●
80-315BN	×	×	●	×
80-315AN	×	×	●	×
100-160B	●	×	×	●
100-160B	●	×	×	●
100-200B	×	●	●	●
100-200A	×	●	●	●
100-250C	×	●	●	●
100-250B	×	●	●	●
100-250A	×	●	●	●

●=Available  
×=Not available

## Legend

**MN:** Front suction close-coupled centrifugal pumps with close impeller mounted on IE3 motor shaft extension. Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733.

**MNG:** Front suction centrifugal pumps connected to IE3 standard motor (stub-shaft construction). Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733.

**MA-MAX:** Single-stage end-suction centrifugal frame-mounted pumps. Dimensions in accordance with EN 733.

### 4 Poles

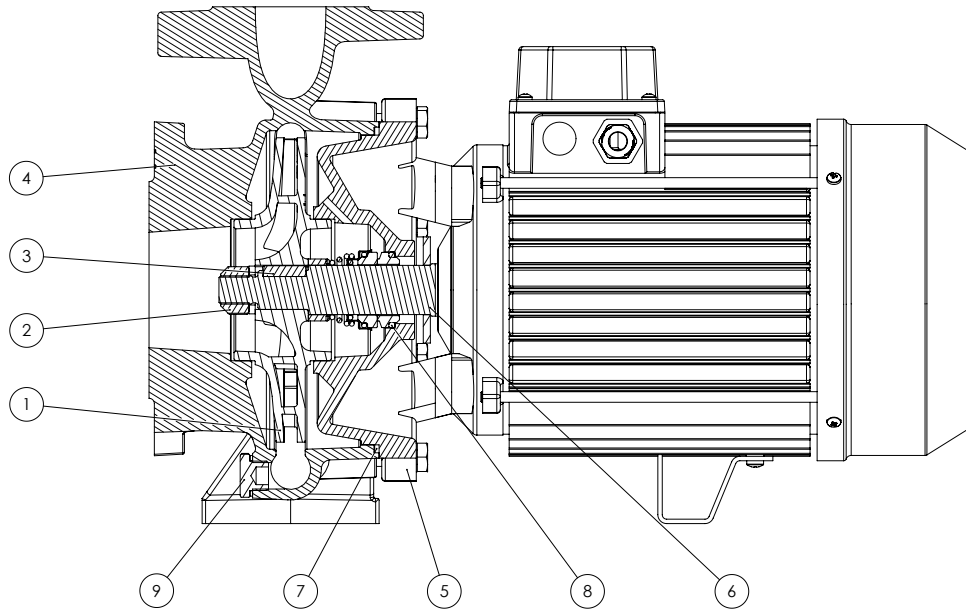
TYPE	PUMP
	4MA
32-160C	●
32-160B	●
32-160A	●
32-200C	●
32-200B1	×
32-200B	●
32-200A1	×
32-200A	●
32-250C	●
32-250B	●
32-250A	●
40-125C	●
40-125B	●
40-125A	●
40-160B	●
40-160A	●
40-160AP	●
40-200B1	×
40-200B	●
40-200A1	×
40-200A	●
40-200AP	●
40-250C	●
40-250B	●
40-250A	●
40-250BM	●
40-250AM	●
50-125B	●
50-125A	●
50-160B1	×
50-160B	●
50-160A1	×
50-160A	●
50-200C	●
50-200B	●
50-200A	●
50-250C	●
50-250B	●
50-250A	●
50-315C	●
50-315B	●
50-315A	●
65-125B1	×
65-125B	●
65-125A1	×
65-125A	●
65-160C	●
65-160B	●
65-160A	●
65-200C	●
65-200B	●
65-200A	●
65-250B	●
65-250A	●
65-315CM	●
65-315BM	●
65-315AM	●

TYPE	PUMP
	4MA
80-160E	●
80-160D	●
80-160C	●
80-160B	●
80-160A	●
80-200B	●
80-200A	●
80-250B	●
80-250A	●
80-315B	●
80-315A	●
100-160B	×
100-160B	×
100-200B	●
100-200A	●
100-250E	●
100-250D	●
100-250A	●
100-315B	●
100-315A	●
100-400C	●
100-400B	●
100-400A	●
125-250B	●
125-250A	●
125-315C	●
125-315B	●
125-315A	●
125-400C	●
125-400B	●
125-400A	●
150-315D	●
150-315C	●
150-315B	●
150-315A	●
150-400C	●
150-400B	●
150-400A	●
Not envisaged in the EN 733 standard	
200-315D	●
200-315C	●
200-315B	●
200-315A	●
200-400C	●
200-400B	●
200-400A	●
250-315C	●
250-315B	●
250-315A	●
250-400D	●
250-400C	●
250-400B	●
250-400A	●

●=Available  
×=Not available

# MN Series

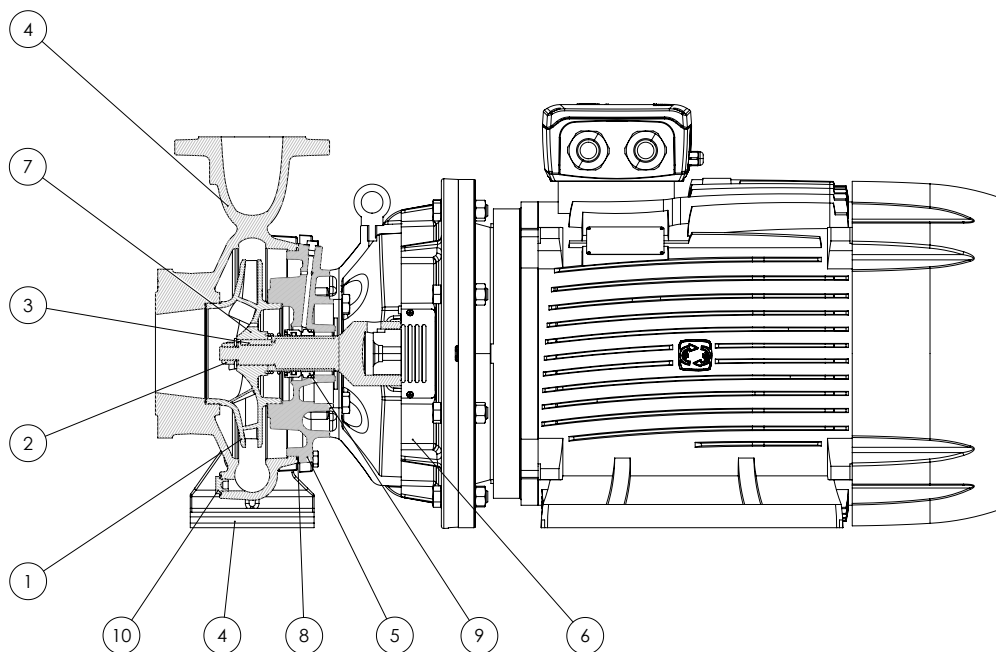
## Models list and materials



POS: N.	DENOMINATION	VERSION	MATERIAL	REFERENCE STANDARDS	
				EUROPE	USA
1	<b>Impeller</b>	Standard B X	Cast iron G20 Bronze Stainless steel	GJL-200 (JL1030) CuSn10-C (CC480K) X5CrNiMo17-12-2/ 1.4401	ASTM Class 30 UNS C90700 AISI 316
2	<b>Impeller lock nut and washer</b>		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
3	<b>Impeller key</b>		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
4	<b>Volute casing</b>	Standard for models up to 80-200 Standard from model 80-250	Cast iron G20 Cast iron G25	GJL-200 (JL1030) GJL-250 (JL1040)	ASTM Class 30 ASTM Class 35
5	<b>Motor bracket</b>		Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
6	<b>Shaft extension</b>		Stainless steel	X5CrNi18-10/ 1.4301	AISI 304
7	<b>O-ring</b>	Standard E V	NBR EPDM FKM		
8	<b>Mechanical seal</b>		(Search for the material in the mechanical seal table)		
9	<b>Fill and drain plugs</b>		Brass	CU ZN 40 PB2 UNI 5705/65	C37700

# MNG Series

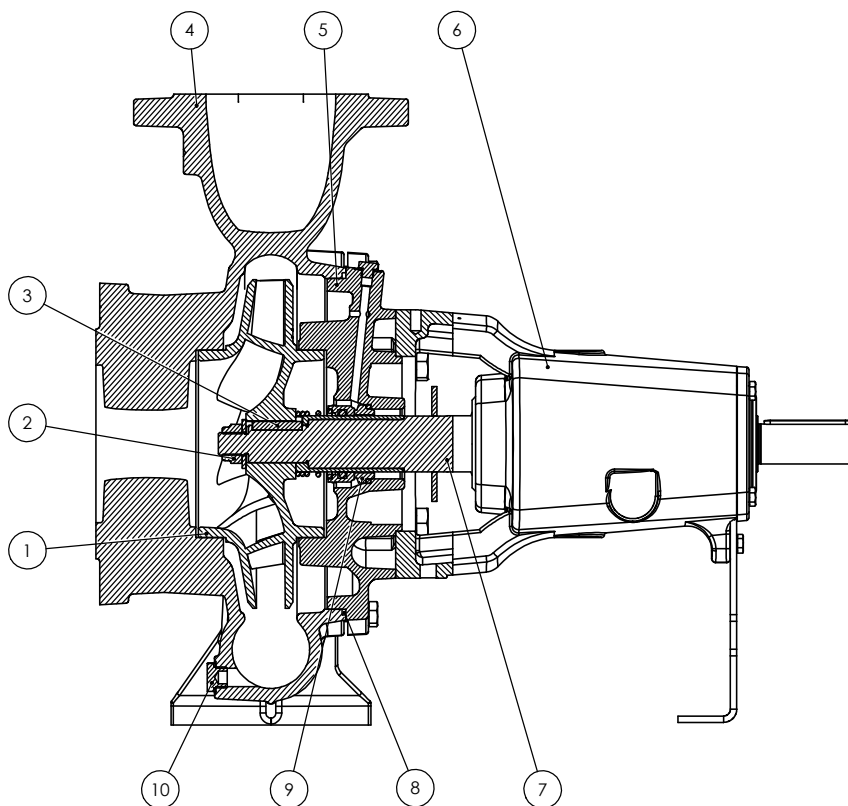
## Models list and materials



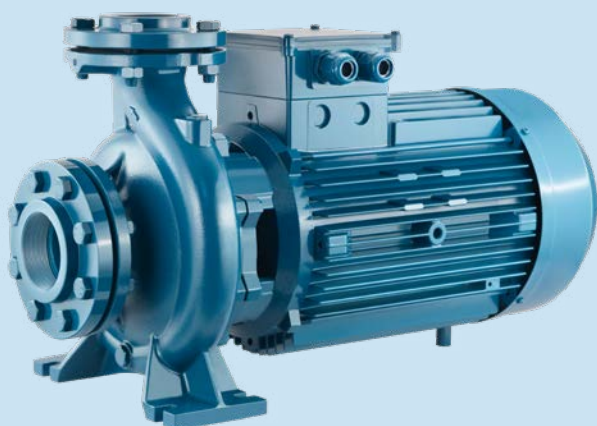
POS. N.	DENOMINATION	VERSION	MATERIAL	REFERENCE STANDARDS	
				EUROPE	USA
1	<b>Impeller</b>	Standard B X	Cast iron G20 Bronze Stainless steel	GJL-200 (JL1030) CuSn10-C (CC480K) X5CrNiMo17-12-2/ 1.4401	ASTM Class 30 UNS C90700 AISI 316
2	<b>Impeller lock nut and washer</b>		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
3	<b>Impeller key</b>		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
4	<b>Volute casing</b>	Standard X	Cast iron G25 Stainless steel	GJL-250 (JL1040) X5CrNiMo17-12-2/ 1.4401	ASTM Class 35 AISI 316
5	<b>Casing cover</b>	Standard X	Cast iron G20 Stainless steel	GJL-200 (JL1030) X5CrNiMo17-12-2/ 1.4401	ASTM Class 30 AISI 316
6	<b>Motor bracket</b>		Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
7	<b>Stub shaft</b>		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
8	<b>O-ring</b>	Standard E V	NBR EPDM FKM		
9	<b>Mechanical seal</b>		(Search for the material in the mechanical seal table)		
10	<b>Fill and drain plugs</b>	Fill and drain plugs	Brass	CU ZN 40 PB2 UNI 5705/65	C37700

# MA-4MA Series

## Models list and materials



POS. N.	DENOMINATION	VERSION	MATERIAL	REFERENCE STANDARDS	
				EUROPE	USA
1	<b>Impeller</b>	Standard	Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
		B	Bronze	CuSn10-C (CC480K)	UNS C90700
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
2	<b>Impeller lock nut and washer</b>		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
3	<b>Impeller key</b>		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
4	<b>Volute casing</b>	Standard for models up to 80-200	Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
		Standard from model 80-250	Cast iron G25	GJL-250 (JL1040)	ASTM Class 35
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
5	<b>Casing cover</b>	Standard	Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
6	<b>Bracket</b>		Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
7	<b>Shaft</b>		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
8	<b>O-ring</b>	Standard	NBR		
		E	EPDM		
		V	FKM		
9	<b>Mechanical seal</b>		(Search for the material in the mechanical seal table)		
10	<b>Fill and drain plugs</b>	Standard	Brass	CU ZN 40 PB2 UNI 5705/65	C37700
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316



Monobloc horizontal centrifugal pumps, constructed in compliance with EN 733 standards; widely used in water supplies, pressurisation and fire-fighting systems, cooling, heating, irrigation, industrial and agricultural applications; standard supply with counter-flange.

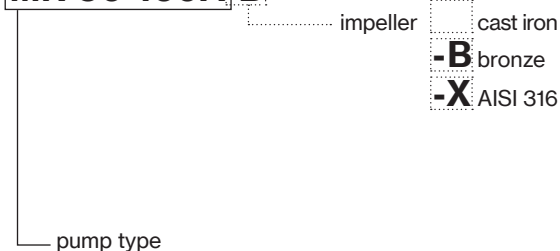
### Construction features

<b>Pump body</b>	cast iron
<b>Motor bracket</b>	cast iron
<b>Impeller</b>	cast iron, bronze or stainless steel
<b>Mechanical seal</b>	ceramic-graphite-NBR
<b>Pump shaft end</b>	stainless steel AISI 304
<b>Liquid temperature</b>	-10 ÷ +90 °C
<b>Operating pressure</b>	max 10 bar

### Motor

<b>2 Poles induction motor</b>	3~ 230/400V-50Hz P ≤ 4kW 3~ 400/690V-50Hz P > 4kW
	1~ 230V-50Hz
<b>Insulation class</b>	F
<b>Protection degree</b>	IPX5

### MN 50-160A-B



TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
32-160	80×120×155	24	80×120×190	30
32-200 C	80×120×155	24	80×120×180	24
32-200 A/B	100×120×140	18	100×120×185	24
32-250 A	85×110×120	6	85×110×170	9
32-250 B/C	80×120×120	6	80×120×170	9
40-125	80×120×155	24	80×120×190	30
40-160	80×120×155	24	80×120×190	30
40-200	100×120×140	18	100×120×185	24
40-250 A	85×110×120	6	85×110×170	9
40-250 B/C	80×120×120	6	80×120×170	9
50-125	80×120×120	24	80×120×180	24
50-160	100×120×140	18	100×120×185	24
50-200 A	85×110×120	6	85×110×170	9
50-200 B/C	80×120×120	6	80×120×170	9
50-250	80×120×120	6	80×120×170	9
65-125	100×120×140	18	100×120×185	24
65-160	85×110×120	6	85×110×170	9
65-200	85×110×120	6	85×110×170	9
65-250	85×110×130	4	85×110×190	6
80-160	85×110×120	6	85×110×170	9
80-200	85×110×130	4	85×110×190	6



# MNG-MNGX ~2900 r.p.m.

Centrifugal Flanged  
EN 733



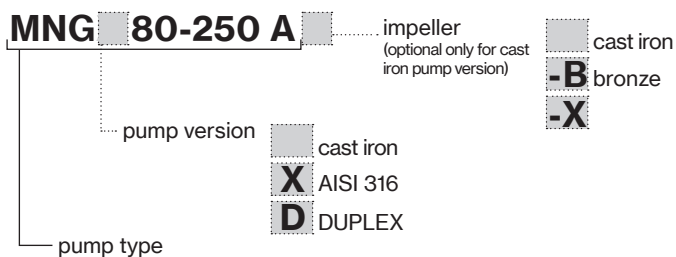
Monobloc horizontal centrifugal pumps, constructed in compliance with EN 733 standards, with stub-shaft and bracket for coupling to standard motors; widely used in water supplies, pressurisation and fire-fighting systems; standard supply with counter-flange.

## Construction features

<b>Pump body</b>	cast iron (MNG) stainless steel AISI 316 (MNGX)
<b>Motor bracket</b>	cast iron
<b>Impeller</b>	cast iron, bronze, steel (MNG), steel (MNGX)
<b>Mechanical seal</b>	ceramic-graphite-NBR
<b>Pump shaft end</b>	stainless steel AISI 316
<b>Liquid temperature</b>	-10 ÷ +90 °C
<b>Operating pressure</b>	max 10 bar

## Motor

<b>2 Poles induction motor</b>	3- 400/690V-50Hz
<b>Insulation class</b>	F
<b>Protection degree</b>	IPX5



# MA/MAX

~ 2900 r.p.m.

# 4MA/4MAX

~ 1450 r.p.m.

## Centrifugal Flanged EN 733

Bare shaft centrifugal pumps constructed in compliance with EN 733 standards; widely used in water supplies, pressurisation and fire-fighting systems. The pump is supplied with counter-flanges.

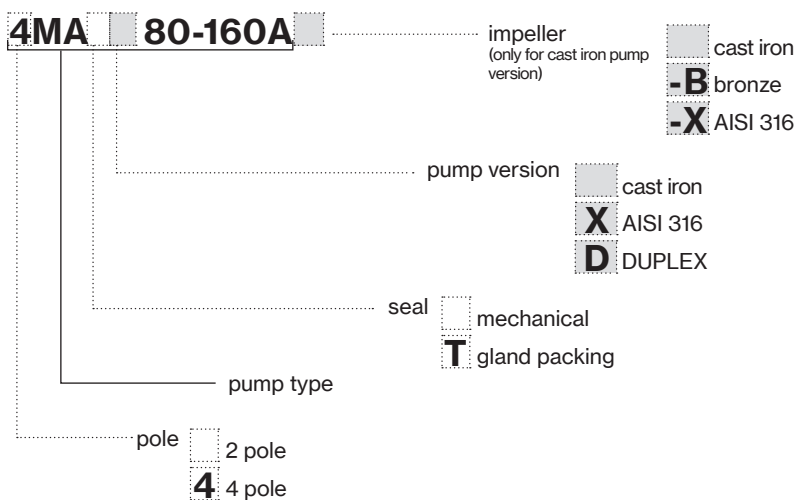


### Construction features

<b>Pump body</b>	cast iron (MA) stainless steel AISI 316 (MAX)
<b>Motor bracket</b>	cast iron
<b>Impeller</b>	cast iron, bronze, steel (MA) stainless steel AISI 316 (MAX)
<b>Seal</b>	mechanical ceramic-graphite (MA/MAX) or gland packing graphite impregnated (MAT-MATX)
<b>Pump shaft end</b>	stainless steel AISI 316
<b>Liquid temperature</b>	-10 ÷ +90 °C
<b>Operating pressure</b>	max 10 bar max 14 bar (... -315 ~ 2900 r.p.m.)

### Motor

Available with IE3 efficiency class motor



# MA/MAX

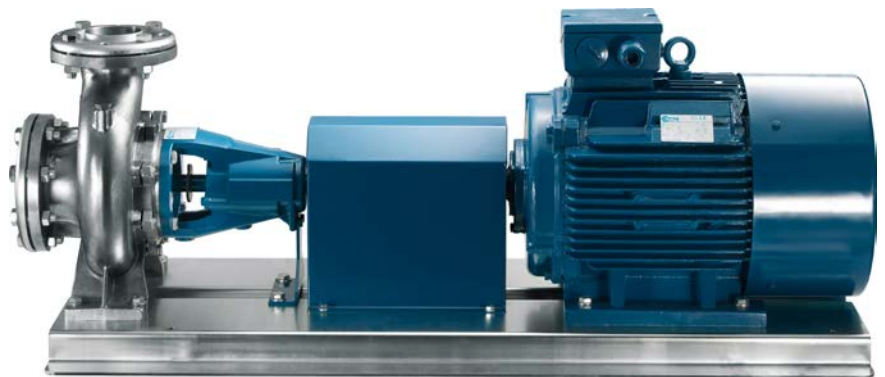
~ 2900 r.p.m.

Centrifugal Flanged  
EN 733

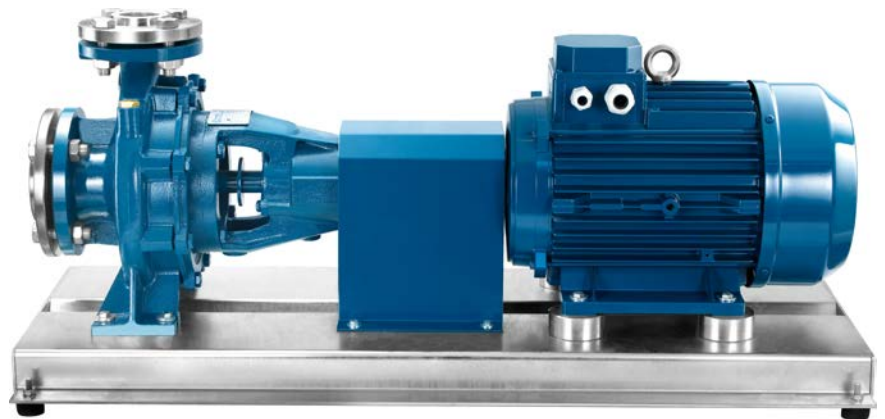
# 4MA/4MAX

~ 1450 r.p.m.

## Construction variants



MAX  
4MAX



MA  
4MA

MA/MAX  
4MA/4MAX  
mechanical seal



MAT/MATX  
4MAT/4MATX  
gland packing seal





**MN ~ EN 733**

TYPE	P <sub>2</sub> nom.		3~		Q (m <sup>3</sup> /h - l/min)																				
					0	30	33	36	39	42	45	48	54	60	66	72	78	84	96	108	120	132	138	144	150
	HP	kW	P <sub>1</sub> max kW	A 3x400V 50Hz	0	500	550	600	650	700	750	800	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	2500
65-125B1	7,5	5,5	6,4	11,3	19,7	20,6	20,5	20,4	20,4	20,3	20,2	20,2	20,0	19,7	19,3	18,8	18,2	17,5	16,3	15,0					
65-125B	7,5	5,5	6,6	11,0	19,7	20,6	20,5	20,4	20,4	20,3	20,2	20,2	20,0	19,7	19,3	18,8	18,2	17,5	16,3	15,0	13,1				
65-125A1	10	7,5	8,6	15,1	24,6	25,2	25,2	25,1	25,1	25,0	24,8	24,9	24,7	24,5	24,2	23,9	23,5	23,0	22,0	20,6	18,8				
65-125A	10	7,5	8,8	14,4	24,6	25,2	25,2	25,1	25,1	25,0	24,9	24,9	24,7	24,5	24,2	23,9	23,5	23,0	22,0	20,6	18,8	16,8			
65-160C	12,5	9,2	10,1	16,8	28,9					30,6	30,5	30,3	30,0	29,6	29,1	28,5	27,9	27,2	25,3	22,9	20,2	17,5	16,0	13,9	
65-160B	15	11	12,7	20,6	33,2					35,1	35,0	34,9	34,6	34,3	33,8	33,3	32,8	32,1	30,4	28,2	25,5	22,5	21,4	20,4	
65-160A	20	15	17,1	28,5	40,1					42,5	42,5	42,5	42,3	42,1	41,8	41,4	41,0	40,4	38,9	37,1	35,3	32,8	31,7	30,9	
65-200C	20	15	17,0	28,3	44,4								46,1	45,4	44,7	44,0	43,2	42,4	40,3	37,5	33,7	28,9	26,8		
65-200B	25	18,5	21,2	34,8	51,7								53,9	53,4	52,7	52,0	51,3	50,4	48,6	45,9	43,0	39,4	37,1	34,6	
65-200A	30	22	25,4	41,7	60,3								61,8	61,4	61,0	60,4	59,8	59,1	57,1	54,6	51,6	48,3	46,5	44,4	
65-250B	40	30	30,8	55,3	80,6								80,6	79,5	78,4	77,1	75,7	74,1	70,4	66,1	61,0	54,7	51,0	47,3	
65-250A	50	37	37,0	69,2	91,6								91,6	90,8	89,8	88,6	87,4	85,9	82,5	77,8	72,8	67,4	64,3	60,8	57,9

TYPE	P <sub>2</sub> nom.		3~		Q (m <sup>3</sup> /h - l/min)																			
					0	66	72	78	84	96	108	120	132	138	144	156	168	180	195	210	225	240		
	HP	kW	P <sub>1</sub> max kW	A 3x400V 50Hz	0	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000		
80-160E	12,5	9,2	9,8	16,3	21,5	22,9	22,5	22,1	21,6	20,8	19,9	18,9	17,7	17,2	16,6	15,3	13,7							
80-160D	15	11	12,2	20,0	25,4	27,3	27,0	26,6	26,3	25,4	24,5	23,5	22,4	21,8	21,2	19,9	18,3	16,4						
80-160C	20	15	14,5	24,5	29,0	30,9	30,7	30,4	30,1	29,4	28,5	27,4	26,3	25,8	25,3	24,1	22,5	20,7	18,4					
80-160B	25	18,5	18,1	30,3	33,6	35,9	35,7	35,4	35,2	34,5	33,7	32,9	32,0	31,6	31,1	30,0	28,6	27,0	24,5	22,0				
80-160A	30	22	22	37	38	40,5	40,4	40,2	40,1	39,6	39,1	38,4	37,5	37,1	36,6	35,4	34,1	32,6	30,4	28,3	23,9			
80-200B	40	30	32,0	57,2	50,4				54,5	53,9	53,2	52,3	51,3	50,7	50,2	48,9	47,4	45,8	43,4	40,9	38,5			
80-200A	50	37	38,6	71,6	57,3				61,7	61,3	60,6	59,4	58,2	57,8	57,5	56,8	55,4	53,7	51,5	49,1	46,6	43,9		

TYPE	P <sub>2</sub> nom.		3~		Q (m <sup>3</sup> /h - l/min)																		
					0	96	108	120	132	138	144	156	168	180	195	210	225	240	270	300	330		
	HP	kW	P <sub>1</sub> max kW	A 3x400V 50Hz	0	1600	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000	4500	5000	5500		
100-160B	40	30	31,9	57,1	41,7	40,7	40,8	40,7	40,4	40,3	40,1	39,6	39,1	38,5	37,8	37,0	36,1	35,0	32,3	29,2	25,7		
100-160A	50	37	37,5	70,2	46,0	45,1	45,2	45,1	44,9	44,8	44,7	44,3	43,9	43,3	42,7	42,0	41,1	40,2	37,9	35,0	31,9		

# MNG-MNGX ~2900 r.p.m.

Centrifugal Flanged  
EN 733

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																			
			0	96	108	120	132	138	144	156	168	180	195	210	225	240	255	270	300	330	360	
			0	1600	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000	4250	4500	5000	5500	6000	
			H (m) pump input power (kW)																			
80-250B	45	225M	77,2	80,0	79,0	77,5	75,3	74,2	73,1	71,0	69,0	67,0	64,5	61,8	58,8							
			<a href="#">14,01</a>	<a href="#">30,93</a>	<a href="#">32,60</a>	<a href="#">34,34</a>	<a href="#">36,13</a>	<a href="#">37,02</a>	<a href="#">37,86</a>	<a href="#">39,38</a>	<a href="#">40,78</a>	<a href="#">42,10</a>	<a href="#">43,60</a>	<a href="#">44,94</a>	<a href="#">46,15</a>							
80-250A	55	250M	90,0	92,8	91,1	89,3	87,4	86,4	85,4	83,1	80,7	78,5	75,7	72,4	68,8	65,2						
			<a href="#">16,74</a>	<a href="#">36,56</a>	<a href="#">38,57</a>	<a href="#">40,54</a>	<a href="#">42,46</a>	<a href="#">43,39</a>	<a href="#">44,31</a>	<a href="#">46,12</a>	<a href="#">47,81</a>	<a href="#">49,29</a>	<a href="#">50,92</a>	<a href="#">52,59</a>	<a href="#">54,18</a>	<a href="#">55,50</a>						
100-200B	45	225M	56,1		56,8	56,5	56,1	55,9	55,6	55,1	54,5	53,9	53,1	52,2	51,4	50,4	49,0	47,5	43,8	39,7		
			<a href="#">21,75</a>		<a href="#">28,84</a>	<a href="#">29,78</a>	<a href="#">30,74</a>	<a href="#">31,24</a>	<a href="#">31,75</a>	<a href="#">32,81</a>	<a href="#">33,89</a>	<a href="#">35,04</a>	<a href="#">36,50</a>	<a href="#">37,82</a>	<a href="#">38,89</a>	<a href="#">39,85</a>	<a href="#">40,77</a>	<a href="#">41,60</a>	<a href="#">42,92</a>	<a href="#">43,82</a>		
100-200A	55	250M	61,1		62,2	61,8	61,5	61,2	61,0	60,5	59,9	59,5	58,9	58,3	57,4	56,4	55,2	53,8	50,6	46,8	42,5	
			<a href="#">24,57</a>		<a href="#">33,04</a>	<a href="#">34,07</a>	<a href="#">35,11</a>	<a href="#">35,64</a>	<a href="#">36,18</a>	<a href="#">37,28</a>	<a href="#">38,39</a>	<a href="#">39,49</a>	<a href="#">40,86</a>	<a href="#">42,23</a>	<a href="#">43,60</a>	<a href="#">44,97</a>	<a href="#">46,20</a>	<a href="#">47,28</a>	<a href="#">49,05</a>	<a href="#">50,53</a>	<a href="#">51,62</a>	
100-250C	55	250M	71,9			73,2	73,1	73,0	72,9	72,6	72,2	71,8	71,1	70,3	69,3	67,9	66,4	64,7	61,0			
	75	280S	<a href="#">24,75</a>			<a href="#">40,12</a>	<a href="#">41,93</a>	<a href="#">42,84</a>	<a href="#">43,70</a>	<a href="#">45,28</a>	<a href="#">46,77</a>	<a href="#">48,21</a>	<a href="#">49,94</a>	<a href="#">51,65</a>	<a href="#">53,38</a>	<a href="#">55,05</a>	<a href="#">56,66</a>	<a href="#">58,19</a>	<a href="#">60,99</a>			
100-250B	75	280S	83,6			83,7	83,5	83,4	83,2	82,9	82,5	82,1	81,4	80,8	80,0	79,0	77,9	76,4	72,0	67,6		
			<a href="#">29,69</a>			<a href="#">47,10</a>	<a href="#">49,06</a>	<a href="#">50,04</a>	<a href="#">51,01</a>	<a href="#">52,92</a>	<a href="#">54,76</a>	<a href="#">56,47</a>	<a href="#">58,46</a>	<a href="#">60,26</a>	<a href="#">61,86</a>	<a href="#">63,49</a>	<a href="#">65,17</a>	<a href="#">66,93</a>	<a href="#">70,91</a>	<a href="#">73,78</a>		
100-250A	90	280M	93,5			93,9	93,7	93,5	93,4	92,9	92,4	91,8	90,9	89,9	88,8	87,4	85,7	84,0	80,4	75,8	73,2	
			<a href="#">32,71</a>			<a href="#">51,99</a>	<a href="#">54,14</a>	<a href="#">55,23</a>	<a href="#">56,31</a>	<a href="#">58,48</a>	<a href="#">60,60</a>	<a href="#">62,57</a>	<a href="#">64,88</a>	<a href="#">66,97</a>	<a href="#">68,84</a>	<a href="#">70,81</a>	<a href="#">72,81</a>	<a href="#">74,73</a>	<a href="#">78,17</a>	<a href="#">81,33</a>	<a href="#">85,53</a>	

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)												
			0	6	7,5	9	12	15	18	21	24	27	30	33	
			0	100	125	150	200	250	300	350	400	450	500	550	
H (m) / pump input power (kW)															
32-160C	1,5	90S	23,0 <i>0,57</i>	22,8 <i>0,93</i>	22,5 <i>1,02</i>	22,0 <i>1,10</i>	21,0 <i>1,26</i>	19,2 <i>1,40</i>	16,9 <i>1,52</i>	14,0 <i>1,61</i>					
32-160B	2,2	90L	28,0 <i>0,83</i>	27,7 <i>1,24</i>	27,4 <i>1,35</i>	27,0 <i>1,45</i>	26,2 <i>1,65</i>	24,9 <i>1,83</i>	22,9 <i>1,99</i>	20,1 <i>2,13</i>	17,0 <i>2,25</i>				
32-160A	3	100L	36,1 <i>1,29</i>	36,2 <i>1,80</i>	36,0 <i>1,94</i>	35,6 <i>2,07</i>	34,6 <i>2,32</i>	33,2 <i>2,55</i>	31,4 <i>2,76</i>	28,9 <i>2,94</i>	25,7 <i>3,11</i>	22,1 <i>3,25</i>			
32-200C	4	112M	40,2 <i>1,61</i>	40,3 <i>2,27</i>	40,1 <i>2,45</i>	39,8 <i>2,63</i>	38,9 <i>2,96</i>	37,7 <i>3,27</i>	36,1 <i>3,56</i>	34,2 <i>3,82</i>	31,6 <i>4,08</i>	28,7 <i>4,31</i>			
32-200B	5,5	132S	48,3 <i>2,35</i>	48,0 <i>3,16</i>	47,9 <i>3,37</i>	47,6 <i>3,57</i>	46,7 <i>3,97</i>	45,5 <i>4,35</i>	44,2 <i>4,71</i>	42,6 <i>5,05</i>	40,5 <i>5,36</i>	37,9 <i>5,66</i>	35,4 <i>5,93</i>		
32-200A	7,5	132S	57,9 <i>3,06</i>	58,3 <i>4,03</i>	58,4 <i>4,28</i>	58,4 <i>4,53</i>	58,0 <i>5,02</i>	57,1 <i>5,50</i>	55,6 <i>5,92</i>	53,8 <i>6,34</i>	51,4 <i>6,72</i>	49,2 <i>7,08</i>	46,6 <i>7,42</i>	44,3 <i>7,72</i>	
32-250C	11	160M	74,6 <i>4,25</i>		72,8 <i>5,69</i>	72,5 <i>6,00</i>	71,9 <i>6,59</i>	70,5 <i>7,17</i>	68,8 <i>7,69</i>	66,6 <i>8,17</i>	64,1 <i>8,67</i>	61,3 <i>9,08</i>			
32-250B	11	160M	84,8 <i>5,16</i>		84,0 <i>6,93</i>	83,9 <i>7,29</i>	83,6 <i>7,99</i>	82,7 <i>8,66</i>	81,1 <i>9,28</i>	78,6 <i>9,87</i>	75,4 <i>10,44</i>	73,2 <i>11,05</i>			
32-250A	15	160M	93,5 <i>5,71</i>		93,6 <i>7,59</i>	93,7 <i>7,99</i>	93,7 <i>8,82</i>	93,4 <i>9,59</i>	92,3 <i>10,35</i>	90,4 <i>11,07</i>	87,7 <i>11,72</i>	85,3 <i>12,34</i>			

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																
			0	9	12	15	18	21	24	27	30	33	36	39	42	45	48	54	60
			0	150	200	250	300	350	400	450	500	550	600	650	700	750	800	900	1000
H (m) / pump input power (kW)																			
40-125C	1,5	90S	17,9	18,5	18,4	18,1	17,5	16,6	15,6	14,3	12,8	11,1	9,4						
	2,2	90L	<i>0,56</i>	<i>0,96</i>	<i>1,09</i>	<i>1,21</i>	<i>1,31</i>	<i>1,41</i>	<i>1,48</i>	<i>1,53</i>	<i>1,57</i>	<i>1,59</i>	<i>1,60</i>						
40-125B	2,2	90L	22,6	23,4	23,3	23,1	22,7	22,0	21,0	19,9	18,6	17,0	15,1	13,2					
	3	100L	<i>0,82</i>	<i>1,30</i>	<i>1,48</i>	<i>1,63</i>	<i>1,76</i>	<i>1,89</i>	<i>2,00</i>	<i>2,09</i>	<i>2,16</i>	<i>2,22</i>	<i>2,27</i>	<i>2,30</i>					
40-125A	3	100L	26,8	27,6	27,7	27,6	27,2	26,5	25,7	24,6	23,4	22,0	20,3	18,5	16,8				
			<i>1,10</i>	<i>1,64</i>	<i>1,83</i>	<i>2,03</i>	<i>2,20</i>	<i>2,37</i>	<i>2,52</i>	<i>2,65</i>	<i>2,76</i>	<i>2,86</i>	<i>2,95</i>	<i>3,02</i>	<i>3,08</i>				
40-160B	3	100L	28,2	29,2	29,2	28,9	28,3	27,5	26,5	25,3	23,8	22,3	20,5						
	4	112M	<i>1,26</i>	<i>1,92</i>	<i>2,13</i>	<i>2,33</i>	<i>2,51</i>	<i>2,67</i>	<i>2,82</i>	<i>2,96</i>	<i>3,08</i>	<i>3,17</i>	<i>3,25</i>						
40-160A	4	112M	33,8	34,9	34,8	34,5	33,9	33,2	32,4	31,3	30,0	28,5	26,9	25,2	23,4				
	5,5	132S	<i>1,62</i>	<i>2,33</i>	<i>2,58</i>	<i>2,81</i>	<i>3,04</i>	<i>3,25</i>	<i>3,44</i>	<i>3,62</i>	<i>3,78</i>	<i>3,93</i>	<i>4,06</i>	<i>4,16</i>	<i>4,25</i>				
40-160AP	5,5	132S	38,6	39,8	39,9	39,8	39,4	38,7	37,9	37,0	35,8	34,4	32,9	31,1	29,3	27,4	25,3		
			<i>1,90</i>	<i>2,76</i>	<i>3,06</i>	<i>3,33</i>	<i>3,60</i>	<i>3,85</i>	<i>4,08</i>	<i>4,29</i>	<i>4,49</i>	<i>4,67</i>	<i>4,84</i>	<i>5,00</i>	<i>5,14</i>	<i>5,27</i>	<i>5,39</i>		
40-200B	5,5	132S	44,6	45,5	45,4	45,0	44,5	43,5	42,3	41,0	39,3	37,2	34,9	32,3	29,4				
	7,5	132S	<i>2,32</i>	<i>3,25</i>	<i>3,62</i>	<i>3,96</i>	<i>4,27</i>	<i>4,57</i>	<i>4,85</i>	<i>5,11</i>	<i>5,35</i>	<i>5,57</i>	<i>5,76</i>	<i>5,94</i>	<i>6,13</i>				
40-200A	7,5	132S	56,2	56,5	56,5	56,3	55,9	55,1	54,1	52,8	51,2	49,3	47,0	44,4	41,6				
	11	160M	<i>3,48</i>	<i>4,63</i>	<i>5,08</i>	<i>5,51</i>	<i>5,91</i>	<i>6,31</i>	<i>6,68</i>	<i>7,01</i>	<i>7,32</i>	<i>7,63</i>	<i>7,90</i>	<i>8,14</i>	<i>8,37</i>				
40-200AP	7,5	132S	61,7	61,4	61,2	60,8	60,0	59,1	57,9	56,4	54,7	53,1	51,1	48,5	45,5	42,2			
	11	160M	<i>3,50</i>	<i>4,81</i>	<i>5,30</i>	<i>5,74</i>	<i>6,16</i>	<i>6,56</i>	<i>6,95</i>	<i>7,31</i>	<i>7,65</i>	<i>7,96</i>	<i>8,25</i>	<i>8,51</i>	<i>8,73</i>	<i>8,93</i>			
40-250C	11	160M	64,8	64,4	64,2	63,8	63,4	62,7	61,9	61,0	59,8	57,9	55,4						
			<i>4,23</i>	<i>5,50</i>	<i>6,02</i>	<i>6,56</i>	<i>7,11</i>	<i>7,65</i>	<i>8,14</i>	<i>8,63</i>	<i>9,12</i>	<i>9,57</i>	<i>10,01</i>						
40-250B	11	160M	73,7	73,9	74,5	73,2	71,9	71,1	70,2	69,2	68,1	66,7	64,7	62,1					
	15	160M	<i>5,33</i>	<i>6,74</i>	<i>7,38</i>	<i>7,96</i>	<i>8,53</i>	<i>9,10</i>	<i>9,69</i>	<i>10,28</i>	<i>10,87</i>	<i>11,43</i>	<i>11,91</i>	<i>12,39</i>					
40-250A	15	160M	82,6	84,6	84,8	84,7	84,3	83,4	82,4	81,3	80,0	78,5	76,9	75,4	72,8	69,0			
	18,5	160L	<i>6,57</i>	<i>8,36</i>	<i>9,03</i>	<i>9,74</i>	<i>10,45</i>	<i>11,11</i>	<i>11,76</i>	<i>12,44</i>	<i>13,08</i>	<i>13,66</i>	<i>14,23</i>	<i>14,80</i>	<i>15,37</i>	<i>15,93</i>			
40-250BM max 14 bar	18,5	160L	92,6	93,2	93,3	93,2	93,1	92,8	92,4	91,7	90,9	89,8	88,3	86,5	84,6	82,3	79,5	72,0	
			<i>7,41</i>	<i>9,12</i>	<i>9,78</i>	<i>10,48</i>	<i>11,18</i>	<i>11,91</i>	<i>12,65</i>	<i>13,38</i>	<i>14,06</i>	<i>14,73</i>	<i>15,38</i>	<i>16,00</i>	<i>16,60</i>	<i>17,18</i>	<i>17,74</i>	<i>18,83</i>	
40-250AM max 14 bar	22	180M	101,7	103,0	102,8	102,3	102,2	102,0	101,7	101,2	100,4	99,4	98,1	96,5	94,8	93,1	90,9	85,0	
			<i>8,80</i>	<i>10,63</i>	<i>11,26</i>	<i>11,93</i>	<i>12,69</i>	<i>13,46</i>	<i>14,21</i>	<i>14,97</i>	<i>15,74</i>	<i>16,50</i>	<i>17,22</i>	<i>17,92</i>	<i>18,61</i>	<i>19,29</i>	<i>19,96</i>	<i>21,28</i>	

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																		
			0	12	15	18	21	24	27	30	33	36	39	42	45	48	54	60	66	72	78
			0	200	250	300	350	400	450	500	550	600	650	700	750	800	900	1000	1100	1200	1300
H (m) / pump input power (kW)																					
50-125B	3	100L	20,0 <i>1,15</i>	20,6 <i>1,65</i>	20,6 <i>1,79</i>	20,4 <i>1,93</i>	20,3 <i>2,07</i>	20,1 <i>2,19</i>	19,9 <i>2,28</i>	19,6 <i>2,37</i>	19,2 <i>2,49</i>	18,7 <i>2,63</i>	18,2 <i>2,75</i>	17,6 <i>2,84</i>	17,0 <i>2,92</i>	16,4 <i>3,00</i>	15,0 <i>3,13</i>	13,2 <i>3,21</i>	11,3 <i>3,28</i>	9,2 <i>3,31</i>	
50-125A	4	112M	23,7 <i>1,50</i>	24,3 <i>2,02</i>	24,3 <i>2,19</i>	24,2 <i>2,35</i>	24,1 <i>2,51</i>	23,9 <i>2,66</i>	23,7 <i>2,81</i>	23,3 <i>2,94</i>	23,0 <i>3,07</i>	22,6 <i>3,21</i>	22,1 <i>3,34</i>	21,7 <i>3,47</i>	21,2 <i>3,59</i>	20,7 <i>3,69</i>	19,6 <i>3,88</i>	18,2 <i>4,03</i>	16,4 <i>4,15</i>	14,2 <i>4,23</i>	
50-160B	5,5	132S	32,1 <i>1,92</i>				33,5 <i>3,60</i>	33,4 <i>3,84</i>	33,1 <i>4,06</i>	32,7 <i>4,28</i>	32,2 <i>4,48</i>	31,6 <i>4,67</i>	31,0 <i>4,84</i>	30,2 <i>4,99</i>	29,1 <i>5,12</i>	28,3 <i>5,24</i>	26,2 <i>5,45</i>	23,9 <i>5,60</i>	21,5 <i>5,70</i>	18,9 <i>5,75</i>	
50-160A	7,5	132S	38,1 <i>2,49</i>				39,8 <i>4,44</i>	39,8 <i>4,74</i>	39,7 <i>5,03</i>	39,5 <i>5,30</i>	39,2 <i>5,56</i>	38,8 <i>5,79</i>	38,3 <i>6,00</i>	37,7 <i>6,21</i>	36,9 <i>6,21</i>	36,0 <i>6,60</i>	34,2 <i>6,93</i>	32,2 <i>7,20</i>	29,7 <i>7,45</i>	27,4 <i>7,66</i>	25,4 <i>7,95</i>
50-200C	11	160M	48,2 <i>3,13</i>				49,7 <i>6,11</i>	49,2 <i>6,44</i>	48,5 <i>6,75</i>	47,7 <i>7,06</i>	46,9 <i>7,35</i>	45,9 <i>7,62</i>	44,9 <i>7,88</i>	43,7 <i>8,11</i>	42,6 <i>8,31</i>	40,0 <i>8,67</i>	36,0 <i>9,02</i>	32,3 <i>9,26</i>	28,9 <i>9,43</i>		
50-200B	11	160M	53,1 <i>3,44</i>				54,6 <i>6,75</i>	54,1 <i>7,14</i>	53,5 <i>7,52</i>	52,9 <i>7,86</i>	52,2 <i>8,17</i>	51,4 <i>8,47</i>	50,4 <i>8,78</i>	49,3 <i>9,09</i>	48,1 <i>9,34</i>	45,5 <i>9,76</i>	42,7 <i>10,15</i>	38,8 <i>10,47</i>	35,0 <i>10,73</i>		
50-200A	15	160M	59,9 <i>4,38</i>				61,8 <i>7,92</i>	61,5 <i>8,36</i>	61,0 <i>8,78</i>	60,4 <i>9,20</i>	59,7 <i>9,62</i>	58,8 <i>10,02</i>	58,0 <i>10,38</i>	57,1 <i>10,73</i>	56,0 <i>11,05</i>	53,6 <i>11,65</i>	50,8 <i>12,17</i>	47,8 <i>12,62</i>	44,4 <i>13,01</i>	39,8 <i>13,35</i>	
50-250C	15	160M	69,2 <i>5,27</i>				68,2 <i>10,08</i>	67,7 <i>10,60</i>	67,0 <i>11,11</i>	66,3 <i>11,60</i>	65,6 <i>12,07</i>	64,7 <i>12,52</i>	63,8 <i>12,94</i>	62,8 <i>13,33</i>	62,8 <i>14,14</i>	59,9 <i>14,94</i>	56,2 <i>15,59</i>	52,1 <i>18,18</i>			
50-250B	18,5	160L	78,8 <i>6,33</i>				78,4 <i>11,72</i>	78,0 <i>12,33</i>	77,6 <i>12,92</i>	77,0 <i>13,49</i>	76,1 <i>14,03</i>	75,1 <i>14,55</i>	74,0 <i>15,06</i>	72,9 <i>15,53</i>	70,3 <i>16,44</i>	66,9 <i>17,34</i>	62,9 <i>18,18</i>	58,5 <i>18,96</i>			
50-250A	22	180M	88,5 <i>7,43</i>				88,3 <i>13,20</i>	88,1 <i>13,87</i>	87,7 <i>14,55</i>	87,2 <i>15,22</i>	86,6 <i>15,88</i>	85,8 <i>16,51</i>	84,8 <i>17,13</i>	83,8 <i>17,74</i>	81,4 <i>18,90</i>	78,5 <i>19,99</i>	75,0 <i>21,00</i>	70,2 <i>21,94</i>	64,8 <i>22,82</i>		

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																	
			0	42	45	48	54	60	66	72	78	84	96	108	120	132	138	144		
			0	700	750	800	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400		
H (m) / pump input power (kW)																				
50-315DN No EN 733; only CA version	37	200L	87,8 <i>11,19</i>	90,4 <i>20,11</i>	90,3 <i>20,81</i>	90,2 <i>21,52</i>	89,9 <i>22,91</i>	89,2 <i>24,19</i>	88,2 <i>25,41</i>	87,1 <i>26,58</i>	86,0 <i>27,71</i>	84,8 <i>28,81</i>	82,4 <i>30,91</i>	79,9 <i>32,92</i>	76,9 <i>34,81</i>	73,4 <i>36,56</i>				
50-315CN No EN 733; only CA version	45	225M	101,8 <i>13,32</i>	105,0 <i>23,97</i>	104,9 <i>24,79</i>	104,8 <i>25,63</i>	104,3 <i>27,25</i>	103,7 <i>28,77</i>	102,7 <i>30,21</i>	101,5 <i>31,55</i>	100,3 <i>32,85</i>	99,1 <i>34,15</i>	96,7 <i>36,68</i>	94,1 <i>39,06</i>	91,3 <i>41,26</i>	88,7 <i>43,26</i>				
50-315BN No EN 733; only CA version	55	250M	122,3 <i>17,44</i>	124,3 <i>29,30</i>	124,4 <i>30,29</i>	124,5 <i>31,30</i>	124,7 <i>33,28</i>	124,4 <i>35,10</i>	123,6 <i>36,80</i>	122,5 <i>38,35</i>	121,3 <i>39,85</i>	119,9 <i>41,39</i>	116,6 <i>44,41</i>	113,3 <i>47,32</i>	110,1 <i>50,01</i>	107,1 <i>52,39</i>	105,4 <i>53,60</i>	103,5 <i>54,83</i>		
50-315AN No EN 733; only CA version	75	280S	146,1 <i>22,75</i>	146,9 <i>35,89</i>	147,1 <i>37,03</i>	147,3 <i>38,21</i>	147,4 <i>40,53</i>	147,3 <i>42,66</i>	146,9 <i>44,71</i>	146,3 <i>46,72</i>	145,3 <i>48,67</i>	144,1 <i>50,59</i>	141,2 <i>54,26</i>	137,9 <i>57,67</i>	134,1 <i>60,84</i>	130,0 <i>63,78</i>	127,9 <i>65,11</i>	125,8 <i>66,34</i>		

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																						
			0	30	33	36	39	42	45	48	54	60	66	72	78	84	96	108	120	132	138	144	150		
			0	500	550	600	650	700	750	800	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	2500		
H (m) / pump input power (kW)																									
65-125B	5,5	132S	19,7 <i>2,07</i>	20,6 <i>3,36</i>	20,5 <i>3,49</i>	20,4 <i>3,62</i>	20,4 <i>3,75</i>	20,3 <i>3,87</i>	20,2 <i>3,99</i>	20,2 <i>4,11</i>	20,0 <i>4,34</i>	19,7 <i>4,54</i>	19,3 <i>4,71</i>	18,8 <i>4,87</i>	18,2 <i>5,03</i>	17,5 <i>5,17</i>	16,3 <i>5,45</i>	15,0 <i>5,67</i>	13,1 <i>5,84</i>						
65-125A	7,5	132S	24,6 <i>2,95</i>	25,2 <i>4,37</i>	25,2 <i>4,52</i>	25,1 <i>4,68</i>	25,1 <i>4,83</i>	25,0 <i>4,98</i>	24,9 <i>5,13</i>	24,9 <i>5,29</i>	24,7 <i>5,60</i>	24,5 <i>5,89</i>	24,2 <i>6,16</i>	23,9 <i>6,41</i>	23,5 <i>6,65</i>	23,0 <i>6,86</i>	22,0 <i>7,25</i>	20,6 <i>7,55</i>	18,8 <i>7,77</i>	16,8 <i>7,93</i>					
65-160C	11	160M	28,9 <i>2,67</i>				30,6 <i>5,52</i>	30,5 <i>5,71</i>	30,3 <i>5,90</i>	30,0 <i>6,26</i>	29,6 <i>6,60</i>	29,1 <i>6,93</i>	28,5 <i>7,23</i>	27,9 <i>7,51</i>	27,2 <i>7,77</i>	25,3 <i>8,26</i>	22,9 <i>8,64</i>	20,2 <i>8,92</i>	17,5 <i>9,11</i>	16,0 <i>9,17</i>	13,9 <i>9,19</i>				
65-160B	11	160M	33,2 <i>3,37</i>				35,1 <i>6,51</i>	35,0 <i>6,74</i>	34,9 <i>6,95</i>	34,6 <i>7,37</i>	34,3 <i>7,77</i>	33,8 <i>8,17</i>	33,3 <i>8,56</i>	32,8 <i>8,91</i>	32,1 <i>9,24</i>	30,4 <i>9,85</i>	28,2 <i>10,38</i>	25,5 <i>10,82</i>	22,5 <i>11,17</i>	21,4 <i>11,34</i>	20,4 <i>11,49</i>				
65-160A	15	160M	40,1 <i>4,54</i>				42,5 <i>8,31</i>	42,5 <i>8,59</i>	42,5 <i>8,86</i>	42,3 <i>9,37</i>	42,1 <i>9,86</i>	41,8 <i>10,35</i>	41,4 <i>10,85</i>	41,0 <i>11,32</i>	40,4 <i>11,77</i>	38,9 <i>12,65</i>	37,1 <i>13,46</i>	35,3 <i>14,14</i>	32,8 <i>14,79</i>	31,7 <i>15,14</i>	30,9 <i>15,52</i>				
65-200C	15	160M	44,4 <i>4,38</i>							46,1 <i>10,30</i>	45,4 <i>10,87</i>	44,7 <i>11,44</i>	44,0 <i>12,00</i>	43,2 <i>12,52</i>	42,4 <i>12,98</i>	40,3 <i>13,76</i>	37,5 <i>14,36</i>	33,7 <i>14,89</i>	28,9 <i>15,27</i>	26,8 <i>15,43</i>					
65-200B	18,5	160L	51,7 <i>5,71</i>							53,9 <i>12,58</i>	53,4 <i>13,25</i>	52,7 <i>13,89</i>	52,0 <i>14,51</i>	51,3 <i>15,12</i>	50,4 <i>15,66</i>	48,6 <i>16,56</i>	45,9 <i>17,56</i>	43,0 <i>18,37</i>	39,4 <i>18,96</i>	37,1 <i>19,20</i>	34,6 <i>19,42</i>				
65-200A	22	180M	60,3 <i>7,25</i>							61,8 <i>14,56</i>	61,4 <i>15,38</i>	61,0 <i>16,18</i>	60,4 <i>16,93</i>	59,8 <i>17,64</i>	59,1 <i>18,33</i>	57,1 <i>19,66</i>	54,6 <i>20,84</i>	51,6 <i>21,83</i>	48,3 <i>22,73</i>	46,5 <i>23,10</i>	44,4 <i>23,41</i>				
65-250B	30	200L	80,6 <i>9,16</i>							80,6 <i>19,79</i>	79,5 <i>20,77</i>	78,4 <i>21,74</i>	77,1 <i>22,72</i>	75,7 <i>23,63</i>	74,1 <i>24,37</i>	70,4 <i>25,59</i>	66,1 <i>26,73</i>	61,0 <i>27,55</i>	54,7 <i>28,09</i>	51,0 <i>28,27</i>	47,3 <i>28,38</i>				
65-250A	37	200L	91,6 <i>11,32</i>							91,6 <i>23,01</i>	90,8 <i>24,18</i>	89,8 <i>25,33</i>	88,6 <i>26,47</i>	87,4 <i>27,58</i>	85,9 <i>28,55</i>	82,5 <i>30,14</i>	77,8 <i>31,64</i>	72,8 <i>32,77</i>	67,4 <i>33,54</i>	64,3 <i>33,85</i>	60,8 <i>34,09</i>	57,9 <i>34,25</i>			



**MA-MAX ~ EN 733**

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																		
			0	54	60	66	72	78	84	96	108	120	132	138	144	150	156	168	180	195	210
			0	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	2500	2600	2800	3000	3250	3500
H (m) / pump input power (kW)																					
<b>65-315CN</b> only CA version	55	250M	93,9 <u>15,58</u>	96,5 <u>26,64</u>	96,4 <u>27,96</u>	96,3 <u>29,26</u>	96,0 <u>30,48</u>	95,6 <u>31,67</u>	95,1 <u>32,88</u>	93,8 <u>35,28</u>	92,3 <u>37,55</u>	90,7 <u>39,76</u>	89,1 <u>41,99</u>	88,3 <u>43,09</u>	87,5 <u>44,18</u>	86,5 <u>45,24</u>	85,5 <u>46,28</u>	83,2 <u>48,31</u>	80,8 <u>50,27</u>		
<b>65-315BN</b> only CA version	75	280S	116,5 <u>21,16</u>	117,9 <u>34,28</u>	117,8 <u>35,82</u>	117,7 <u>37,35</u>	117,4 <u>38,80</u>	117,0 <u>40,26</u>	116,4 <u>41,84</u>	114,9 <u>45,05</u>	113,3 <u>47,88</u>	111,4 <u>50,51</u>	109,4 <u>53,05</u>	108,3 <u>54,27</u>	107,2 <u>55,48</u>	106,0 <u>56,64</u>	104,9 <u>57,76</u>	102,5 <u>59,94</u>	99,9 <u>62,26</u>	96,3 <u>65,43</u>	
<b>65-315AN</b> only CA version	90	280M	138,2 <u>26,69</u>	138,8 <u>43,17</u>	138,5 <u>45,02</u>	138,1 <u>46,88</u>	137,6 <u>48,78</u>	137,0 <u>50,67</u>	136,4 <u>52,51</u>	135,0 <u>56,09</u>	133,5 <u>59,51</u>	131,7 <u>62,82</u>	129,5 <u>66,08</u>	128,3 <u>67,67</u>	127,0 <u>69,20</u>	125,8 <u>70,68</u>	124,5 <u>72,10</u>	121,8 <u>74,81</u>	118,8 <u>77,32</u>	114,8 <u>80,16</u>	110,4 <u>83,11</u>

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																		
			0	66	72	78	84	96	108	120	132	138	144	156	168	180	195	210	225	240	
			0	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000	
H (m) / pump input power (kW)																					
<b>80-160E</b>	11	160M	21,5 <u>3,48</u>	22,9 <u>6,43</u>	22,5 <u>6,65</u>	22,1 <u>6,86</u>	21,6 <u>7,07</u>	20,8 <u>7,45</u>	19,9 <u>7,76</u>	18,9 <u>8,05</u>	17,7 <u>8,38</u>	17,2 <u>8,52</u>	16,6 <u>8,65</u>	15,3 <u>8,84</u>	13,7 <u>8,88</u>						
<b>80-160D</b>	11	160M	25,4 <u>4,16</u>	27,3 <u>7,74</u>	27,0 <u>8,01</u>	26,6 <u>8,27</u>	26,3 <u>8,53</u>	25,4 <u>9,03</u>	24,5 <u>9,46</u>	23,5 <u>9,79</u>	22,4 <u>10,14</u>	21,8 <u>10,32</u>	21,2 <u>10,49</u>	19,9 <u>10,76</u>	18,3 <u>10,95</u>	16,4 <u>11,07</u>					
<b>80-160C</b>	15	160M	29,0 <u>4,74</u>	30,9 <u>8,66</u>	30,7 <u>8,98</u>	30,4 <u>9,29</u>	30,1 <u>9,59</u>	29,4 <u>10,22</u>	28,5 <u>10,85</u>	27,4 <u>11,38</u>	26,3 <u>11,85</u>	25,8 <u>12,06</u>	25,3 <u>12,25</u>	24,1 <u>12,59</u>	22,5 <u>12,85</u>	20,7 <u>13,05</u>	18,4 <u>13,21</u>				
<b>80-160B</b>	18,5	160L	33,6 <u>6,28</u>	35,9 <u>10,61</u>	35,7 <u>10,94</u>	35,4 <u>11,25</u>	35,2 <u>11,57</u>	34,5 <u>12,25</u>	33,7 <u>12,99</u>	32,9 <u>13,69</u>	32,0 <u>14,33</u>	31,6 <u>14,62</u>	31,1 <u>14,90</u>	30,0 <u>15,38</u>	28,6 <u>15,75</u>	27,0 <u>16,04</u>	24,5 <u>16,35</u>	22,0 <u>16,57</u>			
<b>80-160A</b>	22,5	180M	38,0 <u>6,82</u>	40,5 <u>12,04</u>	40,4 <u>12,50</u>	40,2 <u>12,96</u>	40,1 <u>13,42</u>	39,6 <u>14,34</u>	39,1 <u>15,23</u>	38,4 <u>16,05</u>	37,5 <u>16,81</u>	37,1 <u>17,19</u>	36,6 <u>17,57</u>	35,4 <u>18,29</u>	34,1 <u>18,86</u>	32,6 <u>19,34</u>	30,4 <u>19,84</u>	28,3 <u>20,38</u>	23,9 <u>20,28</u>		
<b>80-200B</b>	30	200L	50,4 <u>8,89</u>				54,5 <u>18,00</u>	53,9 <u>19,22</u>	53,2 <u>20,56</u>	52,3 <u>22,05</u>	51,3 <u>23,32</u>	50,7 <u>23,79</u>	50,2 <u>24,21</u>	48,9 <u>25,06</u>	47,4 <u>26,03</u>	45,8 <u>26,97</u>	43,4 <u>27,97</u>	40,9 <u>28,81</u>	38,5 <u>29,48</u>		
<b>80-200A</b>	37	200L	57,3 <u>10,32</u>				61,7 <u>21,15</u>	61,3 <u>22,80</u>	60,6 <u>24,43</u>	59,4 <u>26,13</u>	58,2 <u>27,62</u>	57,8 <u>28,17</u>	57,5 <u>28,57</u>	55,4 <u>29,28</u>	53,7 <u>30,39</u>	51,5 <u>31,67</u>	49,1 <u>32,98</u>	46,6 <u>34,05</u>	43,9 <u>34,94</u>	35,68 <u>35,68</u>	
<b>80-250B</b>	45	225M	77,2 <u>14,01</u>					80,0 <u>30,93</u>	79,0 <u>32,60</u>	77,5 <u>34,34</u>	75,3 <u>36,13</u>	74,2 <u>37,02</u>	73,1 <u>37,86</u>	71,0 <u>39,38</u>	69,0 <u>40,78</u>	67,0 <u>42,10</u>	64,5 <u>43,60</u>	61,8 <u>44,94</u>	58,8 <u>46,15</u>		
<b>80-250A</b>	55	250M	90,0 <u>16,74</u>					92,8 <u>36,56</u>	91,1 <u>38,57</u>	89,3 <u>40,54</u>	87,4 <u>42,46</u>	86,4 <u>43,39</u>	85,4 <u>44,31</u>	83,1 <u>46,12</u>	80,7 <u>47,81</u>	78,5 <u>49,29</u>	75,7 <u>50,92</u>	72,4 <u>52,59</u>	68,8 <u>54,18</u>	65,2 <u>55,50</u>	

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																	
			0	78	84	96	108	120	132	138	144	156	168	180	195	210	225	240	255	
			0	1300	1400	1600	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000	4250	
H (m) / pump input power (kW)																				
<b>80-315BN</b> only CA version	90	280M	108,0 <u>21,85</u>	112,4 <u>42,35</u>	112,4 <u>44,06</u>	112,2 <u>47,49</u>	111,7 <u>50,86</u>	111,1 <u>54,13</u>	110,2 <u>57,25</u>	109,7 <u>58,76</u>	109,1 <u>60,24</u>	107,9 <u>63,14</u>	106,4 <u>65,95</u>	104,9 <u>68,72</u>	102,7 <u>72,14</u>	100,4 <u>75,60</u>	98,3 <u>78,97</u>	95,7 <u>82,15</u>	90,8 <u>85,17</u>	
<b>80-315AN</b> only CA version	110	315S	140,5 <u>31,92</u>	141,4 <u>55,48</u>	141,1 <u>57,36</u>	140,2 <u>61,13</u>	139,2 <u>64,91</u>	138,1 <u>68,78</u>	136,9 <u>72,88</u>	136,2 <u>74,96</u>	135,5 <u>76,96</u>	134,1 <u>80,84</u>	132,5 <u>84,36</u>	131,0 <u>87,02</u>	128,7 <u>90,23</u>	125,8 <u>94,76</u>	122,5 <u>99,35</u>	121,7 <u>103,04</u>	118,5 <u>106,15</u>	

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																	
			0	108	120	132	138	144	156	168	180	195	210	225	240	255	270	300	330	360
			0	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000	4250	4500	5000	5500	6000
H (m) / pump input power (kW)																				
<b>100-200B</b>	45	225M	56,1 <u>21,75</u>	56,8 <u>28,84</u>	56,5 <u>29,78</u>	56,1 <u>30,74</u>	55,9 <u>31,24</u>	55,6 <u>31,75</u>	55,1 <u>32,81</u>	54,5 <u>33,89</u>	53,9 <u>35,04</u>	53,1 <u>36,50</u>	52,2 <u>37,82</u>	51,4 <u>38,89</u>	50,4 <u>39,85</u>	49,0 <u>40,77</u>	47,5 <u>41,60</u>	43,8 <u>42,92</u>	39,7 <u>43,82</u>	
<b>100-200A</b>	55	250M	61,1 <u>24,57</u>	62,2 <u>33,04</u>	61,8 <u>34,07</u>	61,5 <u>35,11</u>	61,2 <u>35,64</u>	61,0 <u>36,18</u>	60,5 <u>37,28</u>	59,9 <u>38,39</u>	59,5 <u>39,49</u>	58,9 <u>40,86</u>	58,3 <u>42,23</u>	57,4 <u>43,60</u>	56,4 <u>44,97</u>	55,2 <u>46,20</u>	53,8 <u>47,28</u>	50,6 <u>49,05</u>	46,8 <u>50,53</u>	42,5 <u>51,62</u>
<b>100-250C</b>	55	250M	71,9 <u>24,75</u>		73,2 <u>40,12</u>	73,1 <u>41,93</u>	73,0 <u>42,84</u>	72,9 <u>43,70</u>	72,6 <u>45,28</u>	72,2 <u>46,77</u>	71,8 <u>49,94</u>	71,1 <u>51,65</u>	70,3 <u>53,38</u>	69,3 <u>55,05</u>	67,9 <u>56,66</u>	66,4 <u>58,19</u>	64,7 <u>60,99</u>	61,0 <u>66,99</u>		
<b>100-250B</b>	75	280S	83,6 <u>29,69</u>		83,7 <u>47,10</u>	83,5 <u>49,06</u>	83,4 <u>50,04</u>	83,2 <u>51,01</u>	82,9 <u>52,92</u>	82,5 <u>54,76</u>	82,1 <u>56,47</u>	81,4 <u>58,46</u>	80,8 <u>60,26</u>	80,0 <u>61,86</u>	79,0 <u>63,49</u>	77,9 <u>65,17</u>	76,4 <u>66,93</u>	72,0 <u>70,91</u>	67,6 <u>73,78</u>	
<b>100-250A</b>	90	280M	93,5 <u>32,71</u>		93,9 <u>51,99</u>	93,7 <u>54,14</u>	93,5 <u>55,23</u>	93,4 <u>56,31</u>	92,9 <u>58,48</u>	92,4 <u>60,60</u>	91,8 <u>62,57</u>	90,9 <u>64,88</u>	89,9 <u>66,97</u>	88,8 <u>68,84</u>	87,4 <u>70,81</u>	85,7 <u>72,81</u>	84,0 <u>74,73</u>	80,4 <u>78,17</u>	75,8 <u>81,33</u>	73,2 <u>85,53</u>



# 4MA-4MAX

## Centrifugal Flanged EN 733

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)											
			0	1,5	3	4,5	6	7,5	9	10,5	12	15	18	21
			0	25	50	75	100	125	150	175	200	250	300	350
H (m) / pump input power (kW)														
32-160C	0,37	71M	5,9 <i>0,15</i>	5,9 <i>0,18</i>	5,8 <i>0,20</i>	5,5 <i>0,22</i>	5,3 <i>0,24</i>	4,8 <i>0,26</i>	4,3 <i>0,28</i>	3,5 <i>0,28</i>	2,6 <i>0,29</i>			
32-160B	0,37	71M	7,2 <i>0,18</i>	7,2 <i>0,21</i>	7,1 <i>0,24</i>	6,7 <i>0,27</i>	6,4 <i>0,29</i>	5,9 <i>0,31</i>	5,3 <i>0,33</i>	4,6 <i>0,34</i>	3,6 <i>0,36</i>			
32-160A	0,55	80M	8,8 <i>0,22</i>	8,8 <i>0,26</i>	8,7 <i>0,29</i>	8,5 <i>0,31</i>	8,2 <i>0,35</i>	7,9 <i>0,37</i>	7,4 <i>0,39</i>	6,9 <i>0,41</i>	6,1 <i>0,43</i>	4,0 <i>0,45</i>		
32-200C	0,75	80M	11,0 <i>0,26</i>		10,8 <i>0,39</i>	10,6 <i>0,43</i>	10,2 <i>0,47</i>	9,9 <i>0,51</i>	9,4 <i>0,54</i>	8,9 <i>0,57</i>	8,4 <i>0,59</i>	6,7 <i>0,66</i>	4,2 <i>0,71</i>	
32-200B	1,1	90S	13,0 <i>0,38</i>		12,7 <i>0,47</i>	12,5 <i>0,51</i>	12,2 <i>0,56</i>	11,7 <i>0,61</i>	11,2 <i>0,66</i>	10,6 <i>0,70</i>	10,1 <i>0,74</i>	8,7 <i>0,78</i>	6,3 <i>0,81</i>	
32-200A	1,1	90S	15,9 <i>0,44</i>		15,7 <i>0,53</i>	15,5 <i>0,57</i>	15,3 <i>0,66</i>	15,0 <i>0,71</i>	14,5 <i>0,77</i>	13,8 <i>0,82</i>	13,2 <i>0,88</i>	11,7 <i>0,98</i>	9,5 <i>1,04</i>	6,8 <i>1,10</i>
32-250C	1,5	90L	17,5 <i>0,55</i>		17,2 <i>0,75</i>	16,9 <i>0,79</i>	16,6 <i>0,85</i>	16,2 <i>0,90</i>	15,7 <i>0,95</i>	15,1 <i>1,00</i>	14,4 <i>1,04</i>	12,5 <i>1,09</i>	10,0 <i>1,18</i>	6,5 <i>1,21</i>
32-250B	1,5	90L	20,3 <i>0,75</i>		20,0 <i>0,87</i>	19,7 <i>0,93</i>	19,4 <i>1,00</i>	19,0 <i>1,06</i>	18,4 <i>1,14</i>	17,8 <i>1,19</i>	17,0 <i>1,24</i>	15,3 <i>1,33</i>	12,6 <i>1,39</i>	8,3 <i>1,42</i>
32-250A	2,2	100L	22,6 <i>0,80</i>		22,2 <i>0,95</i>	21,9 <i>1,03</i>	21,6 <i>1,10</i>	21,3 <i>1,18</i>	20,7 <i>1,24</i>	20,0 <i>1,30</i>	18,9 <i>1,36</i>	17,2 <i>1,46</i>	14,8 <i>1,52</i>	9,1 <i>1,55</i>

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)													
			0	4,5	6	7,5	9	10,5	12	15	18	21	24	27	30	33
			0	75	100	125	150	175	200	250	300	350	400	450	500	550
H (m) / pump input power (kW)																
40-125C	0,37	71M	4,2 <i>0,15</i>	4,4 <i>0,18</i>	4,3 <i>0,19</i>	4,2 <i>0,21</i>	4,1 <i>0,23</i>	4,0 <i>0,23</i>	3,8 <i>0,25</i>	3,4 <i>0,26</i>	2,8 <i>0,27</i>	2,0 <i>0,29</i>				
40-125B	0,37	71M	5,4 <i>0,19</i>	5,5 <i>0,22</i>	5,5 <i>0,25</i>	5,4 <i>0,26</i>	5,3 <i>0,28</i>	5,2 <i>0,29</i>	5,0 <i>0,31</i>	4,6 <i>0,34</i>	4,0 <i>0,35</i>	3,3 <i>0,37</i>				
40-125A	0,55	80M	6,2 <i>0,23</i>	6,3 <i>0,28</i>	6,3 <i>0,30</i>	6,2 <i>0,32</i>	6,1 <i>0,34</i>	6,0 <i>0,36</i>	5,8 <i>0,38</i>	5,4 <i>0,40</i>	4,9 <i>0,43</i>	4,2 <i>0,44</i>	3,4 <i>0,46</i>			
40-160B	0,55	80M	7,4 <i>0,21</i>	7,5 <i>0,29</i>	7,6 <i>0,34</i>	7,4 <i>0,37</i>	7,2 <i>0,40</i>	7,0 <i>0,42</i>	6,8 <i>0,43</i>	6,1 <i>0,45</i>	4,9 <i>0,47</i>	3,7 <i>0,48</i>	2,5 <i>0,47</i>			
40-160A	0,75	80M	8,8 <i>0,23</i>	8,9 <i>0,34</i>	9,0 <i>0,38</i>	8,9 <i>0,41</i>	8,7 <i>0,45</i>	8,5 <i>0,47</i>	8,3 <i>0,49</i>	7,5 <i>0,53</i>	6,6 <i>0,57</i>	5,6 <i>0,59</i>	4,5 <i>0,60</i>			
40-160AP	0,75 1,1	80M 90S	11,1 <i>0,32</i>	11,1 <i>0,47</i>	11,3 <i>0,52</i>	11,3 <i>0,56</i>	11,1 <i>0,60</i>	10,9 <i>0,64</i>	10,6 <i>0,67</i>	10,0 <i>0,72</i>	9,0 <i>0,77</i>	8,0 <i>0,81</i>	6,8 <i>0,84</i>			
40-200B	1,1	90S	11,3 <i>0,36</i>		11,4 <i>0,52</i>	11,3 <i>0,56</i>	11,1 <i>0,60</i>	10,8 <i>0,64</i>	10,5 <i>0,68</i>	9,6 <i>0,75</i>	8,5 <i>0,78</i>	6,9 <i>0,81</i>	4,7 <i>0,84</i>			
40-200A	1,1	90S	13,8 <i>0,37</i>		13,9 <i>0,64</i>	13,8 <i>0,72</i>	13,6 <i>0,74</i>	13,4 <i>0,79</i>	13,2 <i>0,82</i>	12,3 <i>0,91</i>	11,3 <i>0,99</i>	10,0 <i>1,06</i>	8,3 <i>1,13</i>			
40-200AP	1,1 1,5	90S 90L	14,8 <i>0,41</i>		14,9 <i>0,69</i>	14,8 <i>0,79</i>	14,6 <i>0,81</i>	14,4 <i>0,86</i>	14,2 <i>0,90</i>	13,3 <i>0,99</i>	12,3 <i>1,08</i>	11,0 <i>1,16</i>	9,4 <i>1,23</i>			
40-250C	1,5	90L	15,7 <i>0,61</i>				15,2 <i>0,93</i>	15,0 <i>0,98</i>	14,7 <i>1,04</i>	14,0 <i>1,14</i>	12,8 <i>1,22</i>	11,1 <i>1,32</i>	9,1 <i>1,38</i>	6,6 <i>1,45</i>		
40-250B	2,2	100L	18,3 <i>0,73</i>				18,2 <i>1,13</i>	17,9 <i>1,19</i>	17,7 <i>1,24</i>	17,1 <i>1,39</i>	16,2 <i>1,51</i>	14,9 <i>1,62</i>	12,9 <i>1,73</i>	10,7 <i>1,82</i>	8,3 <i>1,89</i>	
40-250A	2,2	100L	20,9 <i>0,89</i>				20,8 <i>1,32</i>	20,6 <i>1,40</i>	20,4 <i>1,47</i>	19,8 <i>1,62</i>	19,0 <i>1,75</i>	17,9 <i>1,88</i>	16,3 <i>2,00</i>	14,1 <i>2,10</i>	11,5 <i>2,21</i>	8,4 <i>2,31</i>

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																
			0	9	10,5	12	15	18	21	24	27	30	33	36	39	42	45	48	54
			0	150	175	200	250	300	350	400	450	500	550	600	650	700	750	800	900
H (m) / pump input power (kW)																			
50-125B	0,55	80M	5,3 <i>0,15</i>	5,5 <i>0,23</i>	5,5 <i>0,25</i>	5,4 <i>0,28</i>	5,3 <i>0,32</i>	5,1 <i>0,38</i>	4,9 <i>0,40</i>	4,7 <i>0,44</i>	4,4 <i>0,45</i>	4,1 <i>0,46</i>	3,6 <i>0,47</i>	3,1 <i>0,47</i>	2,6 <i>0,48</i>	2,1 <i>0,49</i>			
50-125A	0,75	80M	6,2 <i>0,23</i>	6,4 <i>0,38</i>	6,4 <i>0,39</i>	6,3 <i>0,41</i>	6,3 <i>0,44</i>	6,1 <i>0,48</i>	6,0 <i>0,51</i>	5,8 <i>0,55</i>	5,5 <i>0,59</i>	5,2 <i>0,62</i>	4,8 <i>0,63</i>	4,4 <i>0,64</i>	3,9 <i>0,64</i>	3,4 <i>0,64</i>	2,9 <i>0,63</i>		
50-160B	0,75	80M	7,9 <i>0,23</i>	8,0 <i>0,43</i>	7,9 <i>0,45</i>	7,8 <i>0,47</i>	7,7 <i>0,51</i>	7,3 <i>0,56</i>	6,9 <i>0,60</i>	6,4 <i>0,63</i>	5,9 <i>0,65</i>	5,3 <i>0,66</i>	4,7 <i>0,67</i>	4,0 <i>0,68</i>	3,2 <i>0,68</i>	2,3 <i>0,67</i>			
50-160A	1,1	90S	9,4 <i>0,34</i>	9,4 <i>0,55</i>	9,4 <i>0,57</i>	9,3 <i>0,59</i>	9,2 <i>0,65</i>	9,0 <i>0,72</i>	8,7 <i>0,77</i>	8,3 <i>0,80</i>	7,8 <i>0,82</i>	7,2 <i>0,84</i>	6,7 <i>0,86</i>	6,0 <i>0,87</i>	5,4 <i>0,88</i>	4,7 <i>0,88</i>	3,9 <i>0,89</i>	3,1 <i>0,88</i>	
50-200C	1,1	90S	12,0 <i>0,39</i>	12,0 <i>0,63</i>	11,8 <i>0,68</i>	11,7 <i>0,72</i>	11,2 <i>0,79</i>	10,7 <i>0,83</i>	10,0 <i>0,86</i>	9,3 <i>0,89</i>	8,2 <i>0,91</i>	7,2 <i>0,93</i>	6,0 <i>0,94</i>	4,6 <i>0,94</i>	3,2 <i>0,95</i>				
50-200B	1,5	90L	13,1 <i>0,48</i>		13,1 <i>0,77</i>	13,1 <i>0,83</i>	12,7 <i>0,92</i>	12,2 <i>1,02</i>	11,6 <i>1,09</i>	10,9 <i>1,14</i>	10,0 <i>1,18</i>	9,2 <i>1,22</i>	8,2 <i>1,24</i>	7,0 <i>1,27</i>	5,7 <i>1,27</i>	4,2 <i>1,27</i>			
50-200A	1,5	90L	14,8 <i>0,54</i>		14,7 <i>0,87</i>	14,5 <i>0,92</i>	14,4 <i>1,03</i>	13,9 <i>1,14</i>	13,4 <i>1,22</i>	12,7 <i>1,28</i>	11,0 <i>1,32</i>	10,0 <i>1,36</i>	8,9 <i>1,40</i>	7,6 <i>1,43</i>	6,3 <i>1,45</i>	4,6 <i>1,47</i>	3,1 <i>1,48</i>		
50-250C	2,2	100L	17,9 <i>0,58</i>		17,7 <i>1,24</i>	17,4 <i>1,32</i>	16,9 <i>1,47</i>	16,4 <i>1,59</i>	15,8 <i>1,71</i>	14,9 <i>1,80</i>	14,2 <i>1,89</i>	13,4 <i>1,97</i>	12,4 <i>2,04</i>	11,0 <i>2,10</i>	9,5 <i>2,16</i>	7,5 <i>2,22</i>			
50-250B	3	100L	19,9 <i>0,79</i>		20,0 <i>1,43</i>	19,6 <i>1,58</i>	19,1 <i>1,72</i>	18,8 <i>1,85</i>	18,2 <i>1,97</i>	17,5 <i>2,07</i>	16,7 <i>2,19</i>	15,7 <i>2,28</i>	14,6 <i>2,37</i>	13,6 <i>2,45</i>	12,0 <i>2,52</i>	10,4 <i>2,58</i>	8,2 <i>2,64</i>		
50-250A	4	112M	23,0 <i>0,90</i>		22,9 <i>1,62</i>	22,7 <i>1,84</i>	22,5 <i>2,07</i>	22,2 <i>2,21</i>	21,8 <i>2,42</i>	21,1 <i>2,60</i>	20,4 <i>2,78</i>	19,5 <i>2,95</i>	18,7 <i>3,12</i>	17,7 <i>3,28</i>	16,6 <i>3,43</i>	15,2 <i>3,53</i>	13,4 <i>3,62</i>	8,4 <i>3,74</i>	



TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)															
			0	42	48	60	72	84	96	102	108	120	132	144	150	156	168	
			0	700	800	1000	1200	1400	1600	1700	1800	2000	2200	2400	2500	2600	2800	
			H (m) / pump input power (kW)															
80-315B	11	160M	27,7 <u>2,99</u>	28,3 <u>5,48</u>	28,2 <u>5,88</u>	27,9 <u>6,67</u>	27,2 <u>7,42</u>	26,4 <u>8,09</u>	25,4 <u>8,67</u>	24,9 <u>8,95</u>	24,4 <u>9,21</u>	23,3 <u>9,74</u>	21,9 <u>10,28</u>	20,5 <u>10,66</u>	19,9 <u>10,85</u>			
80-315A	15	160L	34,5 <u>4,29</u>	35,0 <u>7,30</u>	34,9 <u>7,78</u>	34,6 <u>8,75</u>	34,0 <u>9,66</u>	33,3 <u>10,53</u>	32,4 <u>11,37</u>	31,9 <u>11,77</u>	31,3 <u>12,17</u>	30,1 <u>12,91</u>	28,8 <u>13,50</u>	27,3 <u>14,05</u>	26,4 <u>14,31</u>	25,5 <u>14,56</u>	23,7 <u>15,04</u>	

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																	
			0	48	60	72	84	96	102	108	120	132	144	150	156	168	180	192	204	
			0	800	1000	1200	1400	1600	1700	1800	2000	2200	2400	2500	2600	2800	3000	3200	3400	
			H (m) / pump input power (kW)																	
100-200B	5,5	132S	13,5 <u>2,79</u>	13,6 <u>3,48</u>	13,4 <u>3,70</u>	13,1 <u>3,93</u>	12,8 <u>4,15</u>	12,5 <u>4,38</u>	12,3 <u>4,49</u>	12,1 <u>4,59</u>	11,6 <u>4,77</u>	11,0 <u>4,93</u>	10,3 <u>5,05</u>	9,9 <u>5,09</u>	9,5 <u>5,13</u>	8,7 <u>5,19</u>	7,8 <u>5,23</u>			
100-200A	7,5	132M	15,2 <u>3,12</u>	15,4 <u>3,96</u>	15,3 <u>4,22</u>	15,0 <u>4,48</u>	14,8 <u>4,74</u>	14,5 <u>5,03</u>	14,4 <u>5,17</u>	14,2 <u>5,31</u>	13,8 <u>5,58</u>	13,2 <u>5,80</u>	12,5 <u>5,99</u>	12,2 <u>6,07</u>	11,8 <u>6,13</u>	11,0 <u>6,23</u>	10,1 <u>6,33</u>	9,1 <u>6,40</u>		
100-250E	7,5	132M	16,7 <u>3,06</u>		16,9 <u>4,71</u>	16,8 <u>5,06</u>	16,6 <u>5,42</u>	16,3 <u>5,75</u>	16,2 <u>5,91</u>	16,0 <u>6,07</u>	15,5 <u>6,39</u>	14,8 <u>6,69</u>	14,0 <u>6,96</u>	13,6 <u>7,08</u>	13,2 <u>7,19</u>	12,4 <u>7,38</u>	11,4 <u>7,53</u>			
100-250D	7,5	132M	19,6 <u>3,39</u>		19,6 <u>5,44</u>	19,4 <u>5,88</u>	19,2 <u>6,29</u>	18,9 <u>6,66</u>	18,7 <u>6,82</u>	18,5 <u>6,98</u>	18,0 <u>7,30</u>	17,4 <u>7,60</u>	16,6 <u>7,90</u>	16,2 <u>8,05</u>	15,7 <u>8,19</u>	14,8 <u>8,41</u>	13,7 <u>8,60</u>	12,7 <u>8,75</u>		
100-250A	11	160M	22,6 <u>3,96</u>		22,3 <u>6,17</u>	22,1 <u>6,67</u>	21,8 <u>7,15</u>	21,4 <u>7,59</u>	21,2 <u>7,80</u>	21,0 <u>8,00</u>	20,5 <u>8,37</u>	19,9 <u>8,71</u>	19,1 <u>9,04</u>	18,7 <u>9,20</u>	18,3 <u>9,36</u>	17,3 <u>9,63</u>	16,1 <u>9,85</u>	15,0 <u>10,04</u>	13,8 <u>10,19</u>	

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)															
			0	72	84	96	102	108	120	132	144	150	156	168	180	192	204	216
			0	1200	1400	1600	1700	1800	2000	2200	2400	2500	2600	2800	3000	3200	3400	3600
			H (m) / pump input power (kW)															
100-315B	15	160L	31,8 <u>4,74</u>	31,4 <u>9,27</u>	30,6 <u>10,05</u>	29,8 <u>9,67</u>	29,4 <u>10,05</u>	29,0 <u>11,42</u>	28,2 <u>11,10</u>	27,3 <u>12,54</u>	26,3 <u>12,27</u>	25,8 <u>12,54</u>	25,3 <u>13,54</u>	24,2 <u>13,06</u>	23,0 <u>14,31</u>	21,4 <u>13,54</u>	19,7 <u>14,92</u>	17,9 <u>15,14</u>
100-315A	18,5	180M	37,1 <u>5,63</u>	36,5 <u>11,03</u>	35,7 <u>11,94</u>	34,9 <u>12,80</u>	34,4 <u>13,21</u>	34,0 <u>13,60</u>	33,1 <u>14,33</u>	32,2 <u>15,01</u>	31,2 <u>15,69</u>	30,7 <u>16,02</u>	30,2 <u>16,32</u>	29,1 <u>16,86</u>	27,9 <u>17,32</u>	26,3 <u>17,76</u>	24,7 <u>18,15</u>	23,1 <u>18,49</u>

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																	
			0	84	96	102	108	120	132	144	150	156	168	180	192	204	216	228	240	252
			0	1400	1600	1700	1800	2000	2200	2400	2500	2600	2800	3000	3200	3400	3600	3800	4000	4200
			H (m) / pump input power (kW)																	
100-400C	22	180L	42,4 <u>6,93</u>	40,6 <u>14,36</u>	39,8 <u>15,34</u>	39,3 <u>15,81</u>	38,8 <u>16,27</u>	37,8 <u>17,14</u>	36,7 <u>17,98</u>	35,5 <u>18,83</u>	34,9 <u>19,25</u>	34,3 <u>19,64</u>	32,8 <u>20,30</u>	31,4 <u>20,95</u>	30,3 <u>21,50</u>	29,1 <u>21,91</u>	27,7 <u>22,31</u>	25,8 <u>22,70</u>		
100-400B	30	200L	50,3 <u>9,32</u>	48,7 <u>18,20</u>	47,9 <u>19,51</u>	47,5 <u>20,14</u>	47,0 <u>20,75</u>	46,0 <u>21,93</u>	44,9 <u>23,04</u>	43,8 <u>24,07</u>	43,2 <u>24,56</u>	42,6 <u>25,03</u>	41,3 <u>25,95</u>	39,8 <u>26,80</u>	38,2 <u>27,61</u>	36,5 <u>28,36</u>	34,7 <u>29,01</u>	33,1 <u>29,56</u>	31,6 <u>30,00</u>	
100-400A	37	225S	58,3 <u>11,46</u>	56,0 <u>21,50</u>	55,2 <u>23,05</u>	54,8 <u>23,80</u>	54,3 <u>24,54</u>	53,4 <u>25,95</u>	52,4 <u>27,31</u>	51,3 <u>28,63</u>	50,7 <u>29,27</u>	50,1 <u>29,89</u>	48,7 <u>31,07</u>	47,3 <u>32,15</u>	45,8 <u>33,12</u>	44,3 <u>34,00</u>	42,7 <u>34,77</u>	40,9 <u>35,48</u>	38,8 <u>36,11</u>	36,7 <u>36,69</u>

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																
			0	102	108	120	132	144	150	156	168	180	192	204	216	228	240	252	276
			0	1700	1800	2000	2200	2400	2500	2600	2800	3000	3200	3400	3600	3800	4000	4200	4600
			H (m) / pump input power (kW)																
125-250B	11	160M	19,6 <u>5,41</u>	20,2 <u>8,04</u>	20,0 <u>8,22</u>	19,7 <u>8,56</u>	19,2 <u>8,80</u>	18,8 <u>9,30</u>	18,5 <u>9,50</u>	18,2 <u>9,66</u>	17,6 <u>9,99</u>	16,9 <u>10,23</u>	16,1 <u>10,44</u>	15,2 <u>10,67</u>	14,3 <u>10,88</u>	13,3 <u>11,02</u>	12,2 <u>11,12</u>	11,1 <u>11,18</u>	
125-250A	15	160L	23,2 <u>6,18</u>	24,0 <u>9,71</u>	23,8 <u>9,92</u>	23,5 <u>10,36</u>	23,2 <u>10,80</u>	22,8 <u>11,24</u>	22,6 <u>11,47</u>	22,4 <u>11,70</u>	21,9 <u>12,16</u>	21,3 <u>12,60</u>	20,7 <u>13,02</u>	20,0 <u>13,42</u>	19,3 <u>13,77</u>	18,5 <u>14,08</u>	17,6 <u>14,34</u>	16,6 <u>14,57</u>	14,7 <u>14,94</u>



# 4MA-4MAX ~ EN 733

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																	
			0	120	132	144	150	156	168	180	192	204	216	228	240	252	276	348	372	396
			0	2000	2200	2400	2500	2600	2800	3000	3200	3400	3600	3800	4000	4200	4600	5800	6200	6600
			H (m) / pump input power (kW)																	
125-315C	22	180L	24,1 <u>7,23</u>	25,8 <u>12,72</u>	25,7 <u>13,39</u>	25,5 <u>14,05</u>	25,4 <u>14,38</u>	25,3 <u>14,70</u>	25,0 <u>15,34</u>	24,7 <u>15,95</u>	24,4 <u>16,49</u>	24,1 <u>16,99</u>	23,7 <u>17,48</u>	23,3 <u>17,98</u>	22,8 <u>18,49</u>	22,2 <u>18,99</u>	21,0 <u>19,96</u>	15,7 <u>22,32</u>		
125-315B	30	200L	31,5 <u>9,52</u>	33,0 <u>16,73</u>	33,0 <u>17,53</u>	32,9 <u>18,36</u>	32,8 <u>18,77</u>	32,7 <u>19,15</u>	32,4 <u>19,84</u>	32,1 <u>20,43</u>	31,7 <u>21,01</u>	31,3 <u>21,67</u>	31,0 <u>22,39</u>	30,6 <u>23,13</u>	30,1 <u>23,83</u>	29,6 <u>24,48</u>	28,3 <u>25,71</u>	24,2 <u>29,14</u>	22,2 <u>30,13</u>	
125-315A	37	225S	38,6 <u>11,88</u>	39,6 <u>20,51</u>	39,5 <u>21,40</u>	39,2 <u>22,29</u>	39,0 <u>22,73</u>	38,8 <u>23,17</u>	38,4 <u>24,03</u>	38,1 <u>24,84</u>	37,9 <u>25,60</u>	37,6 <u>26,36</u>	37,3 <u>27,14</u>	37,0 <u>27,97</u>	36,6 <u>28,82</u>	36,2 <u>29,66</u>	35,2 <u>31,26</u>	29,6 <u>35,58</u>	28,2 <u>36,82</u>	
125-400C	45	225M	46,2 <u>13,91</u>	47,6 <u>24,65</u>	47,5 <u>25,83</u>	47,2 <u>27,03</u>	47,0 <u>27,62</u>	46,9 <u>28,20</u>	46,5 <u>29,31</u>	46,1 <u>30,30</u>	45,7 <u>31,22</u>	45,2 <u>32,17</u>	44,7 <u>33,24</u>	44,2 <u>34,42</u>	43,7 <u>35,62</u>	43,2 <u>36,73</u>	42,4 <u>38,53</u>	36,5 <u>43,95</u>	33,8 <u>45,52</u>	
125-400B	55	250M	53,4 <u>16,79</u>	54,5 <u>28,74</u>	54,3 <u>30,15</u>	54,1 <u>31,55</u>	54,0 <u>32,25</u>	53,9 <u>32,94</u>	53,5 <u>34,30</u>	53,2 <u>35,60</u>	52,7 <u>36,85</u>	52,3 <u>38,07</u>	51,7 <u>39,30</u>	51,2 <u>40,56</u>	50,6 <u>41,82</u>	50,0 <u>43,06</u>	48,8 <u>45,43</u>	44,6 <u>51,75</u>	39,1 <u>53,55</u>	
125-400A	75	280S	58,6 <u>18,95</u>	59,5 <u>31,66</u>	59,4 <u>33,20</u>	59,2 <u>34,74</u>	59,1 <u>35,52</u>	59,0 <u>36,29</u>	58,7 <u>37,81</u>	58,3 <u>39,30</u>	57,8 <u>40,77</u>	57,4 <u>42,22</u>	56,8 <u>43,66</u>	56,3 <u>45,09</u>	55,7 <u>46,50</u>	55,1 <u>47,87</u>	53,9 <u>50,49</u>	49,9 <u>57,63</u>	45,0 <u>61,83</u>	

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																			
			0	144	150	156	168	180	192	204	216	228	240	252	276	348	372	396	444	492	540	564
			0	2400	2500	2600	2800	3000	3200	3400	3600	3800	4000	4200	4600	5800	6200	6600	7400	8200	9000	9400
			H (m) / pump input power (kW)																			
150-315D	30	200L	25,7 <u>12,22</u>	28,3 <u>18,44</u>	28,3 <u>18,74</u>	28,3 <u>19,04</u>	28,2 <u>19,63</u>	28,1 <u>20,19</u>	27,9 <u>20,71</u>	27,7 <u>21,22</u>	27,5 <u>21,72</u>	27,2 <u>22,23</u>	26,8 <u>22,73</u>	26,5 <u>23,25</u>	25,8 <u>24,37</u>	24,7 <u>27,81</u>	23,8 <u>28,75</u>	22,7 <u>29,56</u>	19,6 <u>30,78</u>			
150-315C	37	225S	29,6 <u>14,01</u>	32,2 <u>21,16</u>	32,2 <u>21,49</u>	32,3 <u>21,84</u>	32,2 <u>22,52</u>	32,2 <u>23,20</u>	32,1 <u>23,85</u>	31,9 <u>24,45</u>	31,6 <u>25,02</u>	31,3 <u>25,58</u>	31,0 <u>26,14</u>	30,7 <u>26,73</u>	30,2 <u>28,01</u>	28,6 <u>31,79</u>	27,9 <u>32,95</u>	27,0 <u>34,00</u>	24,7 <u>35,84</u>	21,8 <u>37,45</u>		
150-315B	45	225M	34,0 <u>16,47</u>	36,3 <u>24,33</u>	36,2 <u>24,72</u>	36,2 <u>25,12</u>	36,2 <u>25,92</u>	36,1 <u>26,72</u>	36,0 <u>27,47</u>	35,7 <u>28,17</u>	35,5 <u>28,85</u>	35,4 <u>29,51</u>	35,2 <u>30,15</u>	34,9 <u>30,83</u>	34,5 <u>32,25</u>	32,8 <u>36,29</u>	32,2 <u>37,54</u>	31,3 <u>38,77</u>	29,3 <u>41,13</u>	26,9 <u>43,09</u>	23,6 <u>44,99</u>	
150-315A	55	250M	39,4 <u>18,39</u>	41,0 <u>27,78</u>	41,0 <u>28,22</u>	40,8 <u>28,66</u>	40,8 <u>29,55</u>	40,8 <u>30,43</u>	40,8 <u>31,31</u>	40,6 <u>32,18</u>	40,3 <u>33,05</u>	40,0 <u>33,92</u>	39,7 <u>34,77</u>	39,5 <u>35,59</u>	39,2 <u>37,10</u>	37,6 <u>41,75</u>	36,6 <u>43,40</u>	35,8 <u>45,02</u>	34,1 <u>48,12</u>	31,7 <u>50,36</u>	28,9 <u>52,60</u>	27,2 <u>53,65</u>

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)																			
			0	168	180	192	204	216	228	240	252	276	348	372	396	444	492	540	564	588	612	
			0	2800	3000	3200	3400	3600	3800	4000	4200	4600	5800	6200	6600	7400	8200	9000	9400	9800	10200	
			H (m) / pump input power (kW)																			
150-400C	75	280S	45,6 <u>20,78</u>	47,8 <u>35,35</u>	47,7 <u>36,41</u>	47,6 <u>37,46</u>	47,4 <u>38,54</u>	47,2 <u>39,58</u>	47,0 <u>40,43</u>	46,7 <u>41,65</u>	46,5 <u>42,62</u>	45,8 <u>44,48</u>	43,9 <u>50,44</u>	43,1 <u>52,51</u>	42,0 <u>54,34</u>	39,2 <u>57,61</u>	35,8 <u>60,59</u>	31,5 <u>63,18</u>	28,7 <u>64,43</u>			
150-400B	75	280S	52,8 <u>26,57</u>	54,4 <u>41,90</u>	54,2 <u>43,10</u>	53,9 <u>44,29</u>	53,7 <u>45,48</u>	53,5 <u>46,65</u>	53,2 <u>47,81</u>	52,9 <u>48,96</u>	52,6 <u>50,10</u>	51,8 <u>52,35</u>	50,3 <u>58,79</u>	49,8 <u>60,86</u>	48,9 <u>62,94</u>	46,1 <u>66,80</u>	42,9 <u>70,20</u>	39,1 <u>73,30</u>	36,7 <u>74,72</u>	34,3 <u>76,14</u>		
150-400A	90	280M	59,0 <u>29,82</u>	60,3 <u>47,01</u>	60,2 <u>48,30</u>	60,0 <u>49,59</u>	59,8 <u>50,88</u>	59,9 <u>52,18</u>	59,4 <u>53,48</u>	59,1 <u>54,78</u>	58,8 <u>56,10</u>	58,1 <u>58,76</u>	56,4 <u>66,15</u>	56,0 <u>68,45</u>	55,3 <u>70,93</u>	53,3 <u>75,79</u>	50,6 <u>79,82</u>	46,7 <u>83,73</u>	44,5 <u>85,61</u>	42,2 <u>87,41</u>	39,8 <u>89,16</u>	

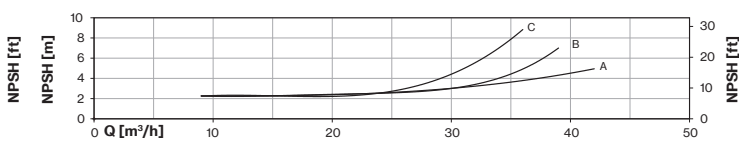
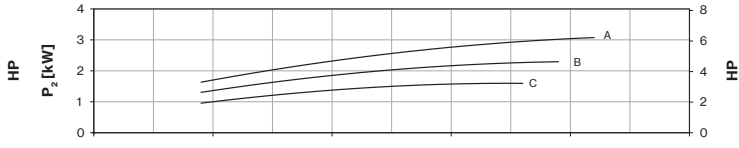
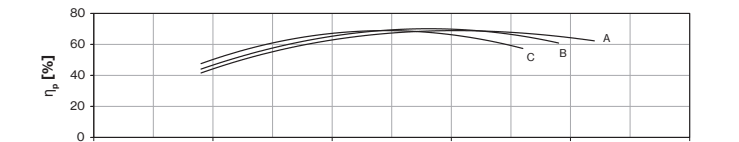
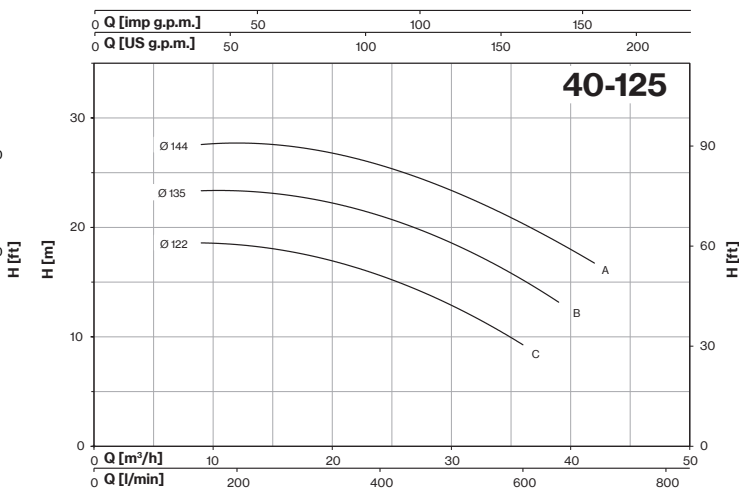
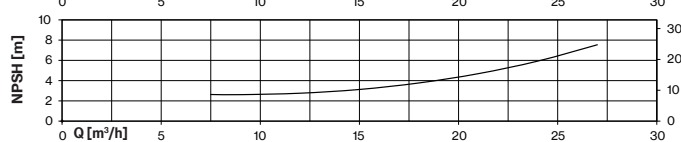
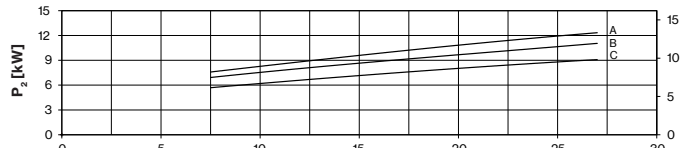
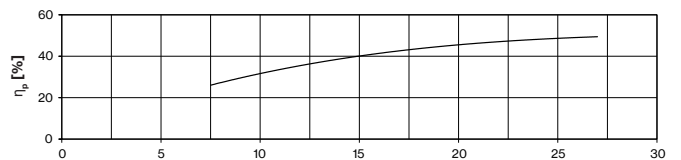
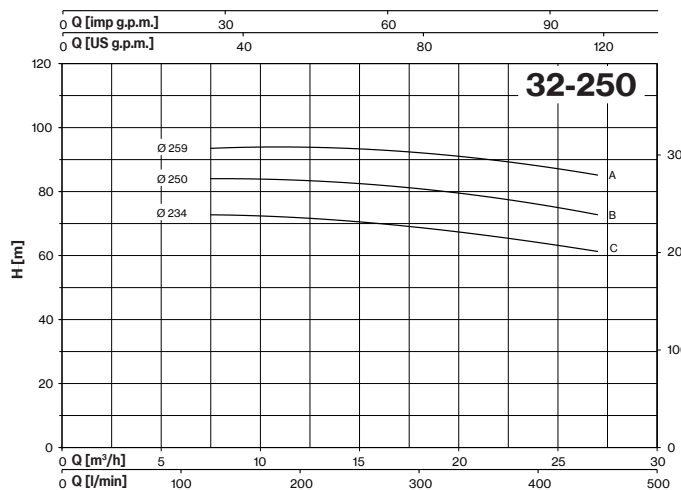
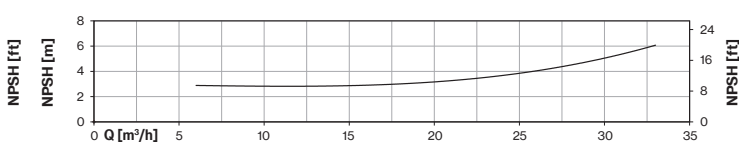
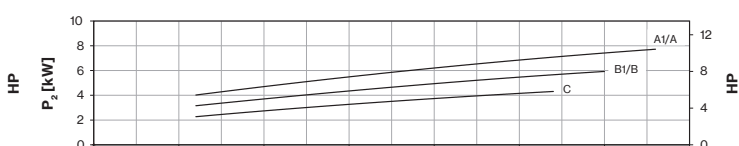
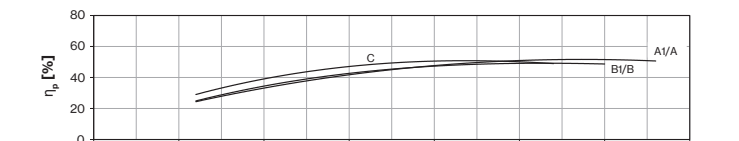
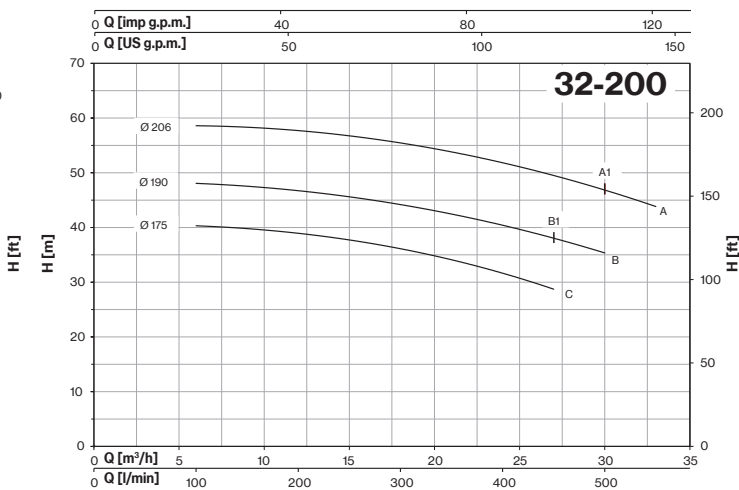
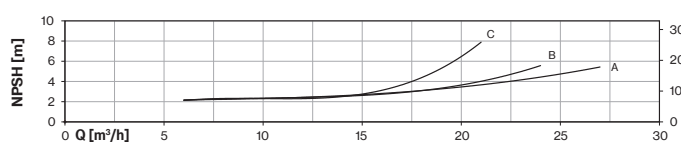
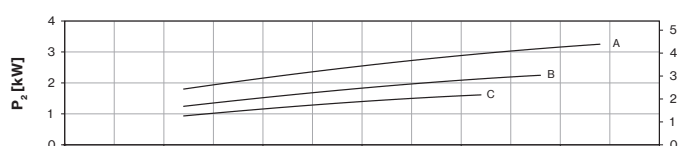
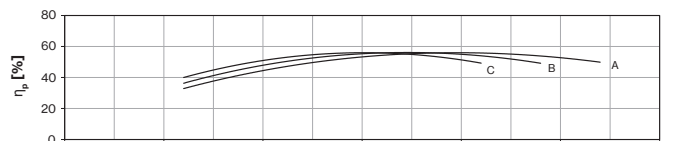
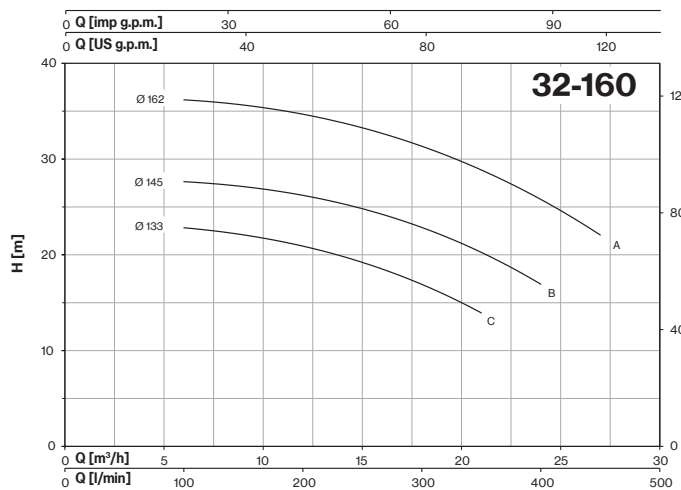
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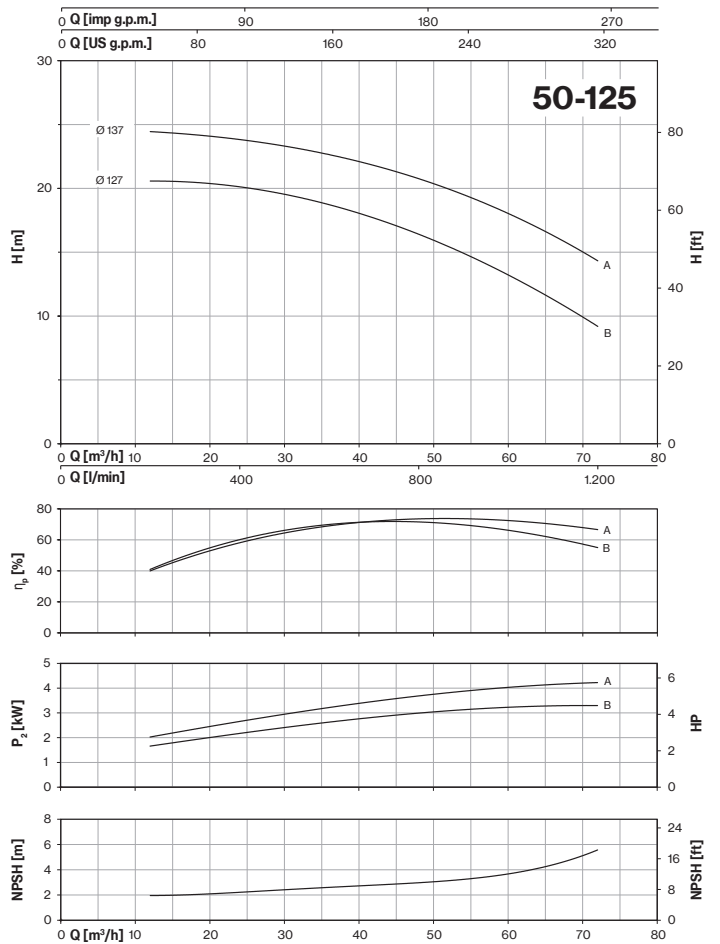
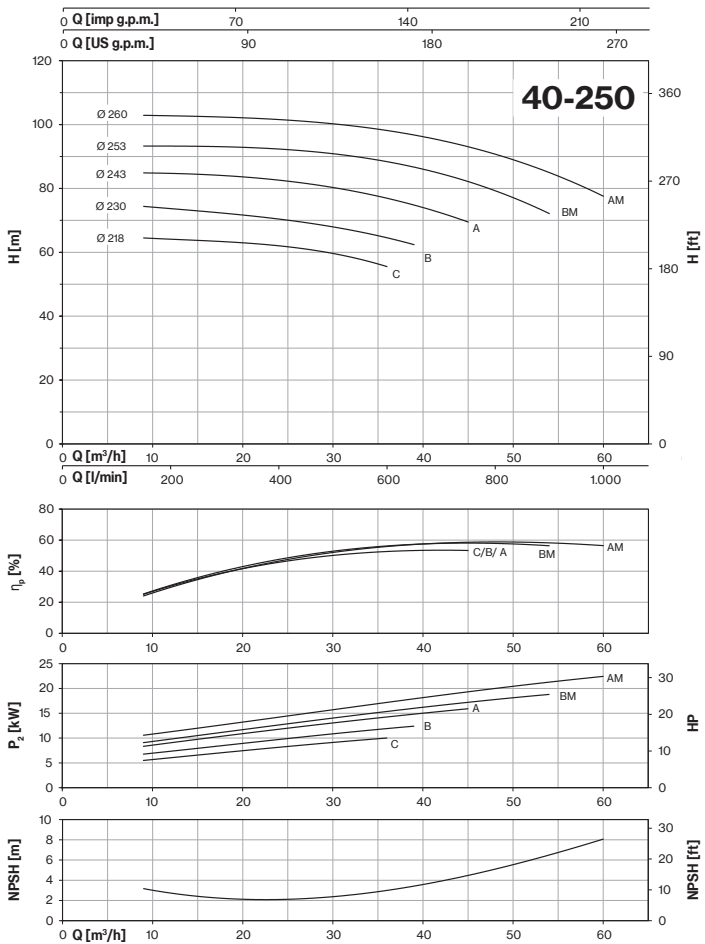
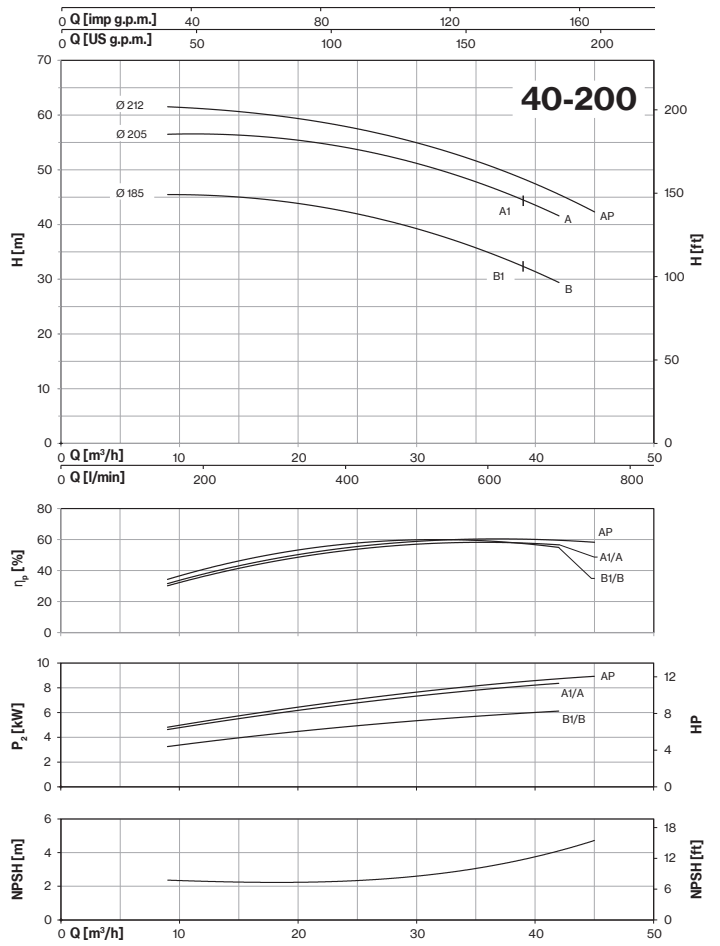
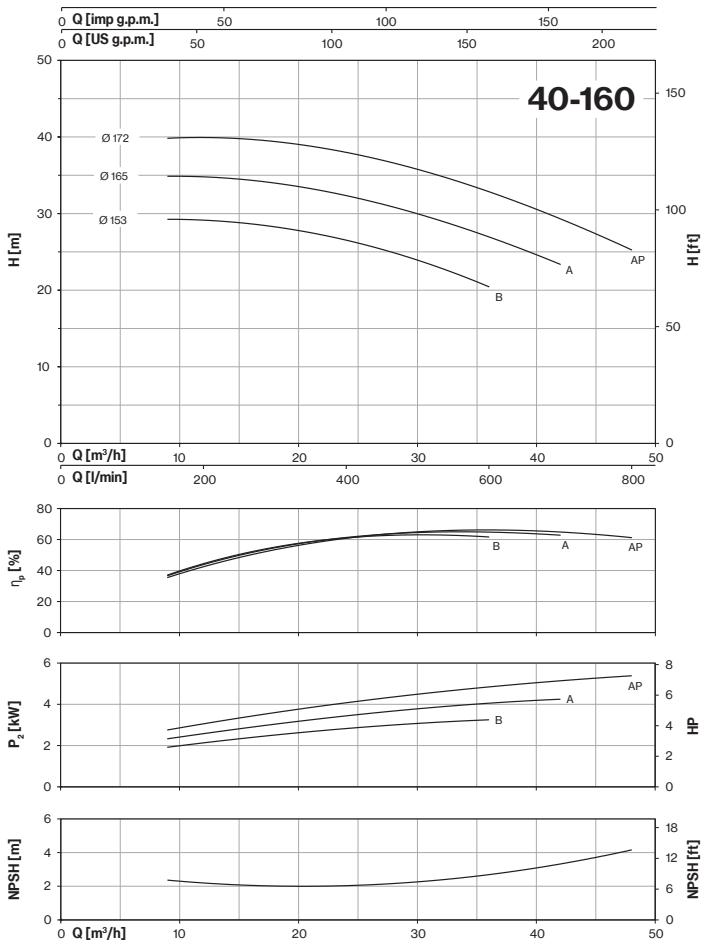
Machines complementing the existing range, not envisaged in the EN 733 standard

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)								
			0	200	250	400	600	800	850	900	
			0	3333	4167	6667	10000	13333	14167	15000	
H (m) / pump input power (kW)											
200-315D	37	225S	21,2 <u>18,00</u>	21,7 <u>24,31</u>	21,8 <u>26,11</u>	21,2 <u>31,21</u>	18,3 <u>36,07</u>	12,5 <u>37,00</u>			
200-315C	45	225M	26,6 <u>21,54</u>	26,6 <u>29,42</u>	26,4 <u>31,44</u>	25,9 <u>37,61</u>	23,1 <u>43,07</u>	16,9 <u>45,42</u>	14,6 <u>45,55</u>		
200-315B	55	250M	33,4 <u>25,04</u>	33,4 <u>36,30</u>	33,2 <u>38,91</u>	32,2 <u>46,32</u>	28,6 <u>52,72</u>	21,7 <u>55,67</u>	19,4 <u>55,62</u>	16,7 <u>55,25</u>	
200-315A	75	280S	36,3 <u>27,90</u>	35,9 <u>39,49</u>	35,8 <u>42,13</u>	35,0 <u>50,07</u>	31,8 <u>58,82</u>	24,9 <u>62,36</u>	22,5 <u>62,45</u>	19,8 <u>62,15</u>	
200-400C	90	280M	43,0 <u>31,27</u>	44,1 <u>45,90</u>	44,1 <u>50,14</u>	43,6 <u>62,49</u>	39,9 <u>77,58</u>	31,5 <u>89,60</u>			
200-400B	110	315S	49,5 <u>40,00</u>	50,8 <u>54,29</u>	51,0 <u>58,92</u>	50,6 <u>73,89</u>	47,2 <u>91,32</u>	39,5 <u>105,65</u>	36,6 <u>108,43</u>		
200-400A	132	315M	57,2 <u>49,00</u>	58,5 <u>65,01</u>	58,6 <u>70,26</u>	58,2 <u>87,26</u>	55,2 <u>107,05</u>	48,2 <u>124,54</u>	45,6 <u>128,46</u>	44,0 <u>132,15</u>	

TYPE	P <sub>2</sub> nom. kW	Motor Size	Q (m <sup>3</sup> /h - l/min)													
			0	250	400	600	800	850	900	1100	1170	1200	1300	1400	1500	1600
			0	4167	6667	10000	13333	14167	15000	18333	19500	20000	21667	23333	25000	26667
H (m) / pump input power (kW)																
250-315C	55	280M	26,1	25,5	25,3	24,1	22,3	21,7	21,0	16,8						
	75	280S	<u>28,00</u>	<u>37,82</u>	<u>44,23</u>	<u>51,71</u>	<u>57,65</u>	<u>58,82</u>	<u>59,57</u>	<u>59,89</u>						
250-315B	75	280S	33,2 <u>43,46</u>	33,0 <u>54,77</u>	32,7 <u>61,20</u>	31,8 <u>68,72</u>	29,6 <u>74,57</u>	28,6 <u>75,26</u>	27,5 <u>75,64</u>	21,7 <u>74,47</u>	19,0 <u>73,35</u>					
250-315A	90	280M	35,8 <u>46,41</u>	35,0 <u>57,61</u>	34,4 <u>64,50</u>	33,3 <u>73,28</u>	31,3 <u>78,44</u>	30,4 <u>79,01</u>	29,3 <u>79,32</u>	23,0 <u>78,27</u>	20,7 <u>77,03</u>	20,0 <u>76,36</u>				
250-400D	110	315S	38,3	39,9	39,9	39,0	36,9	36,1	35,2	30,6	28,6	27,7	24,3			
	132	315M	<u>48,00</u>	<u>61,74</u>	<u>71,25</u>	<u>84,15</u>	<u>95,73</u>	<u>98,36</u>	<u>100,80</u>	<u>108,97</u>	<u>111,27</u>	<u>112,17</u>	<u>114,78</u>			
250-400C	132	315M	44,0	45,8	45,9	44,9	42,7	42,0	41,2	37,2	35,4	34,5	31,3	27,4		
	160	315L	<u>53,83</u>	<u>71,89</u>	<u>83,20</u>	<u>98,11</u>	<u>112,06</u>	<u>115,25</u>	<u>118,20</u>	<u>128,07</u>	<u>130,85</u>	<u>131,93</u>	<u>135,08</u>	<u>137,50</u>		
250-400B	160	315L	50,0	51,7	51,8	51,0	49,0	48,4	47,6	43,9	42,3	41,5	38,5	34,8	30,3	
	200	315L	<u>64,57</u>	<u>84,18</u>	<u>97,49</u>	<u>115,36</u>	<u>131,10</u>	<u>134,76</u>	<u>138,27</u>	<u>151,48</u>	<u>155,58</u>	<u>157,12</u>	<u>161,60</u>	<u>164,88</u>	<u>167,09</u>	
250-400A	200	315L	55,7 <u>70,94</u>	57,4 <u>91,89</u>	57,5 <u>106,81</u>	56,5 <u>127,19</u>	54,5 <u>145,00</u>	53,8 <u>149,18</u>	53,0 <u>153,24</u>	49,4 <u>168,92</u>	47,9 <u>173,94</u>	47,1 <u>175,86</u>	44,3 <u>181,62</u>	40,8 <u>186,11</u>	36,6 <u>189,07</u>	31,7 <u>190,57</u>

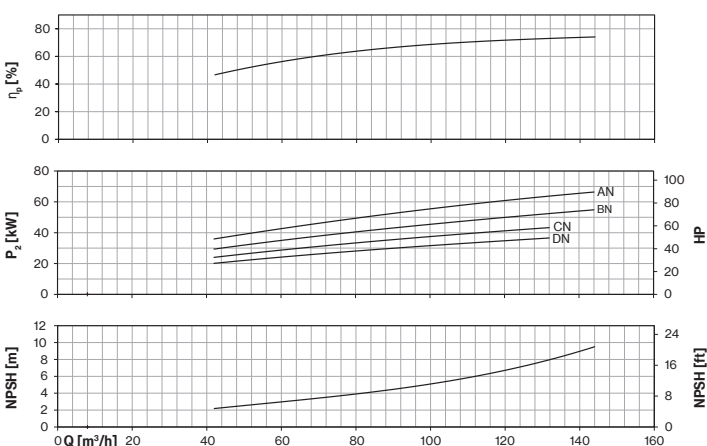
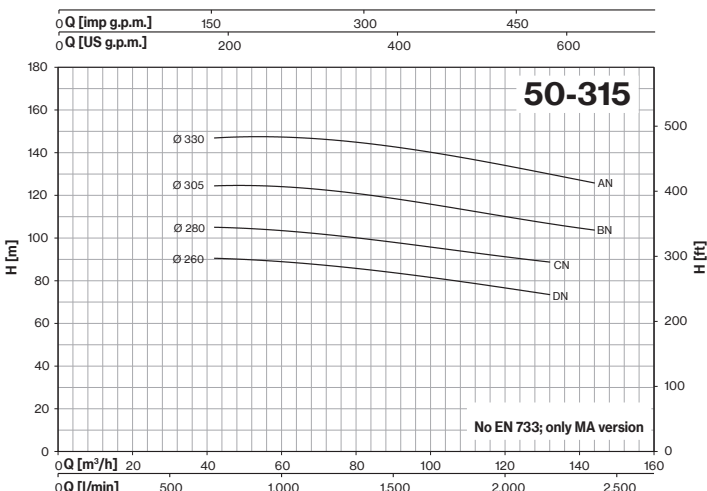
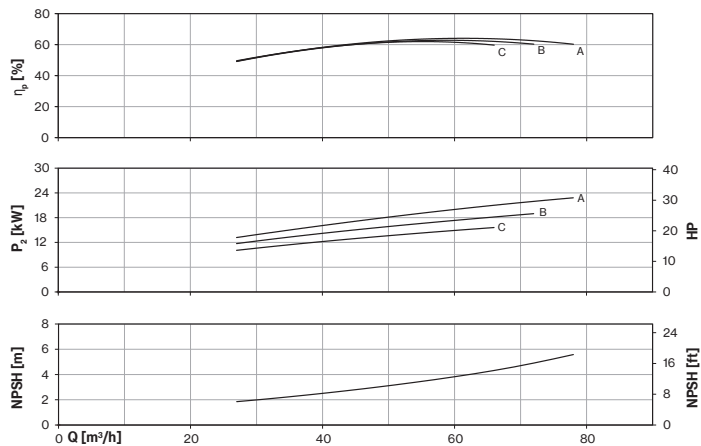
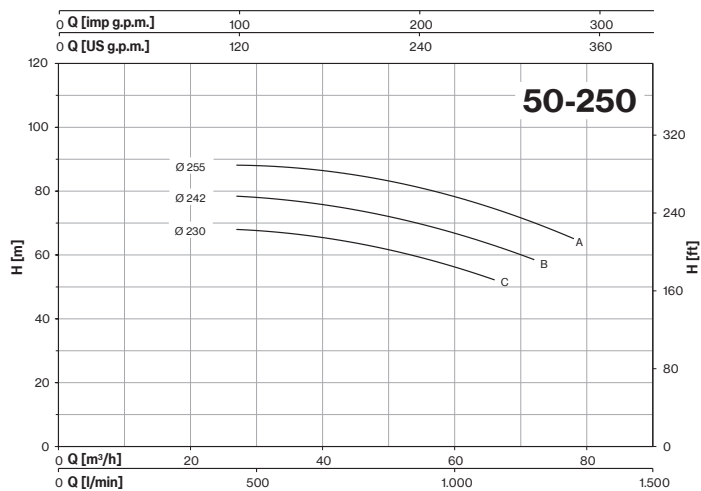
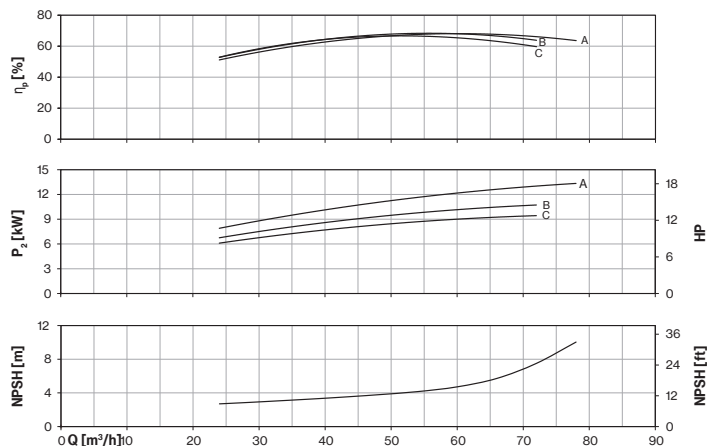
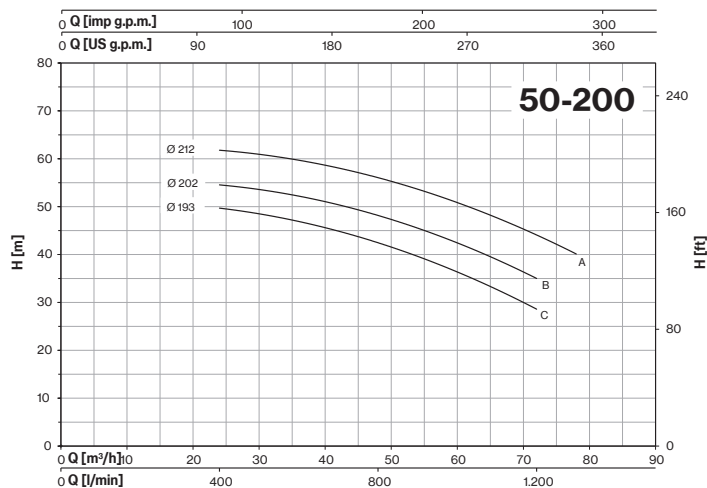
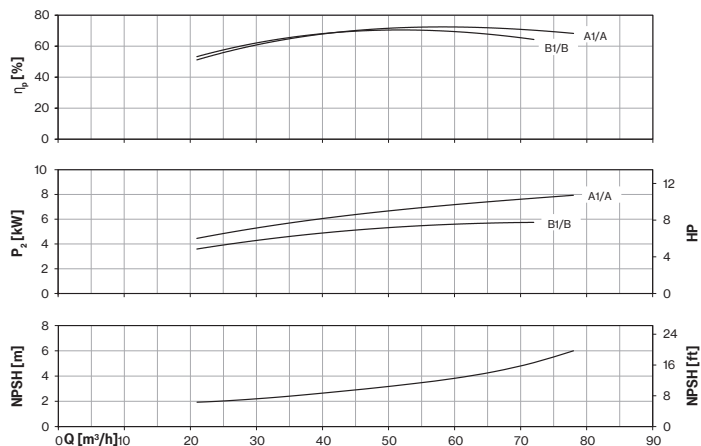
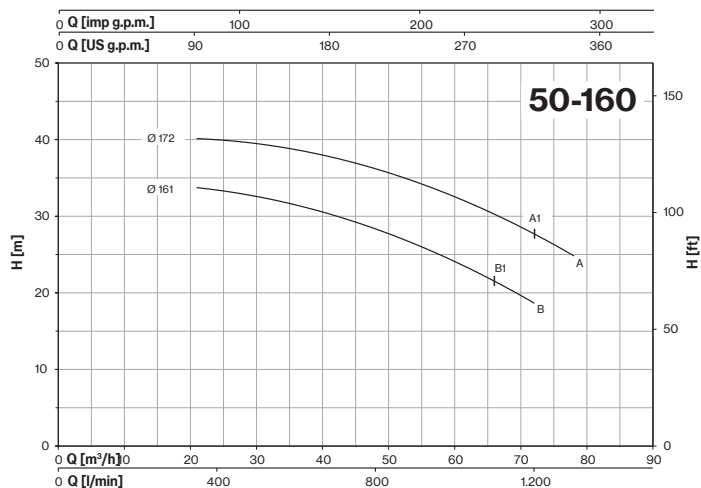
# MN-MNG-MNGX-MA-MAX ~ EN 733



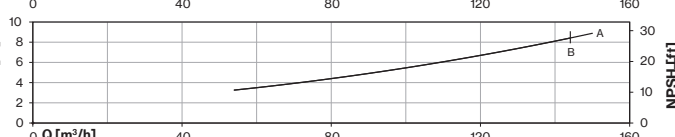
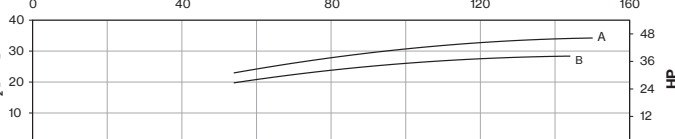
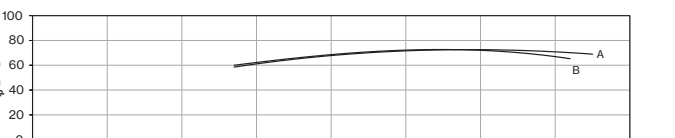
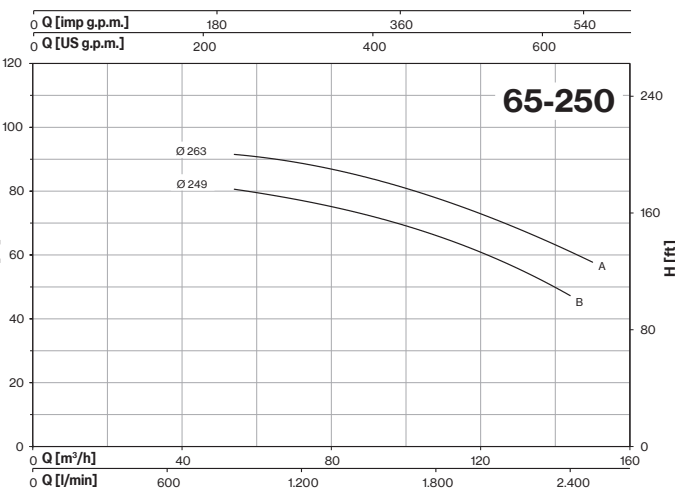
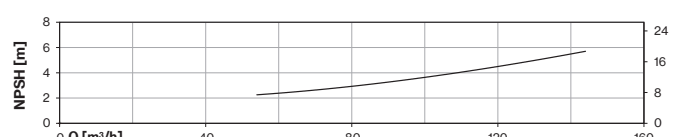
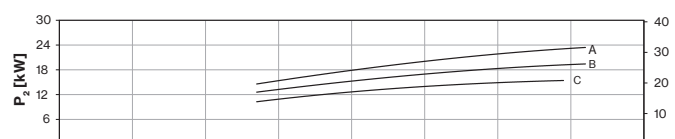
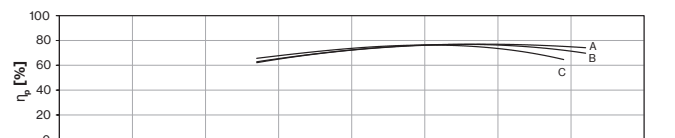
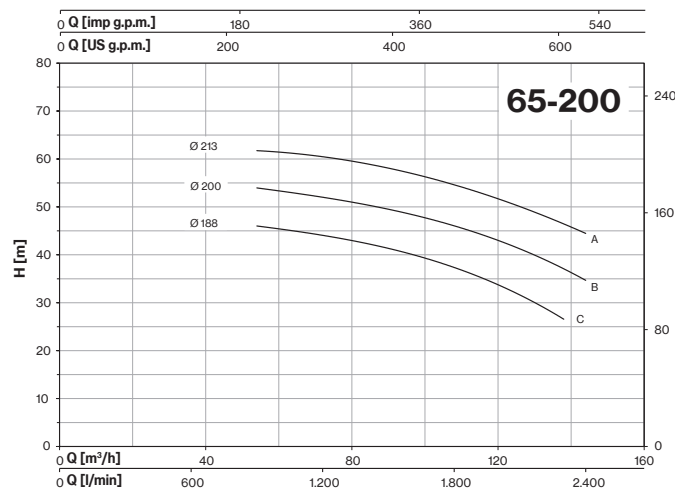
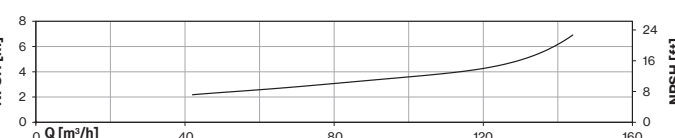
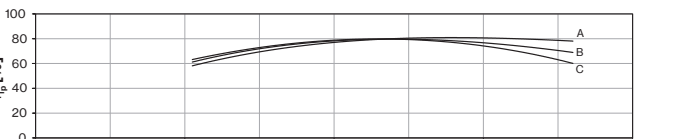
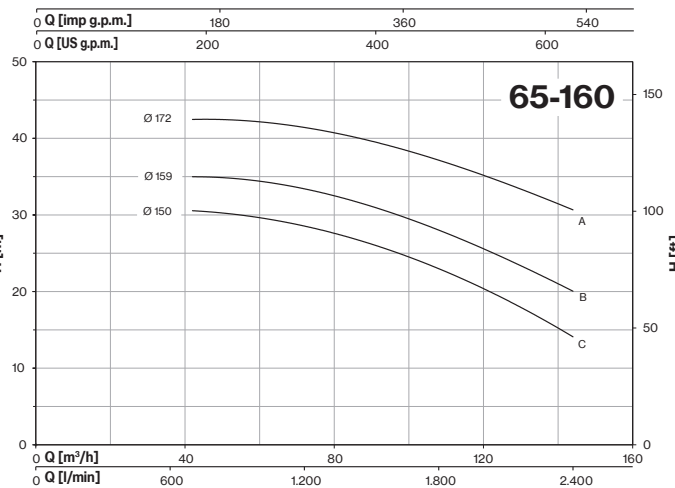
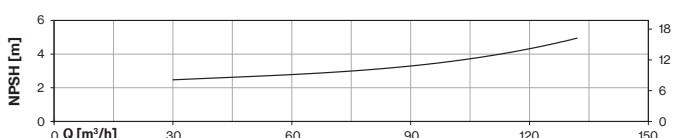
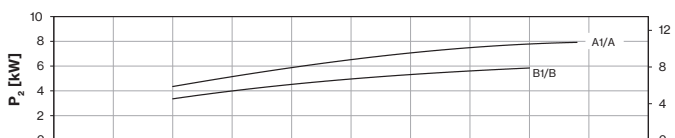
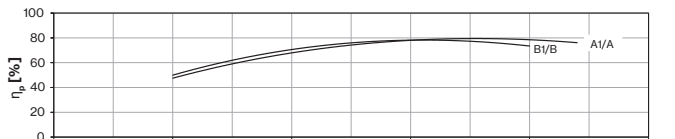
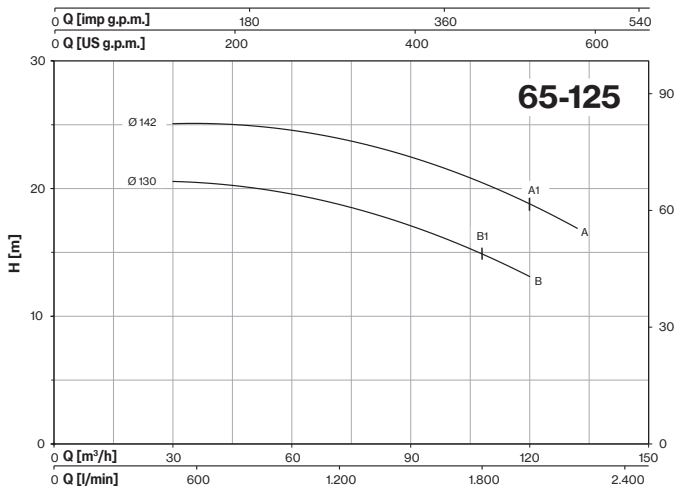




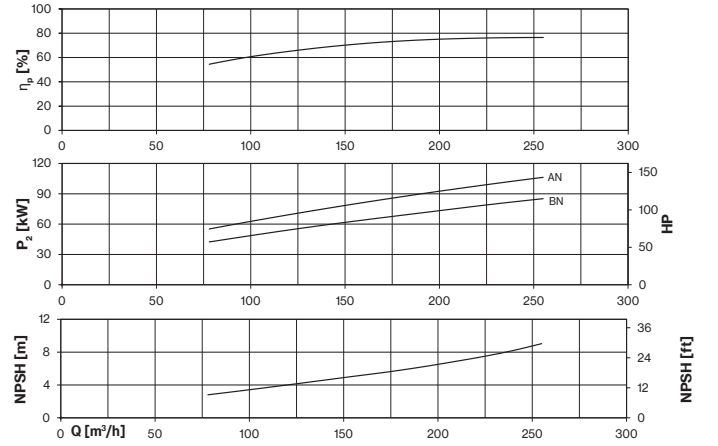
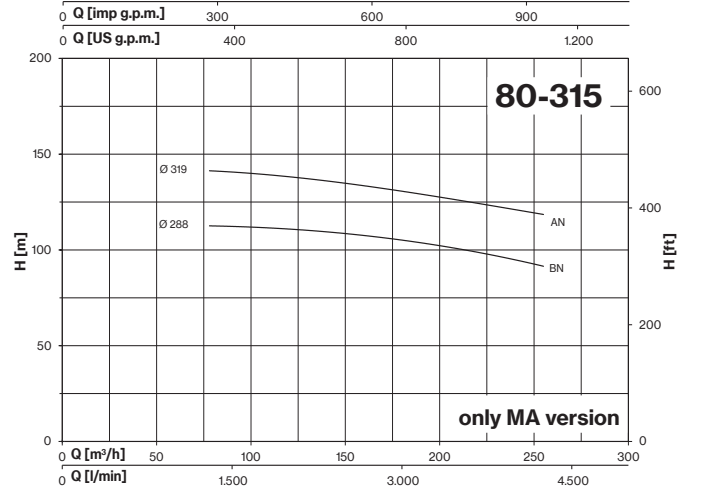
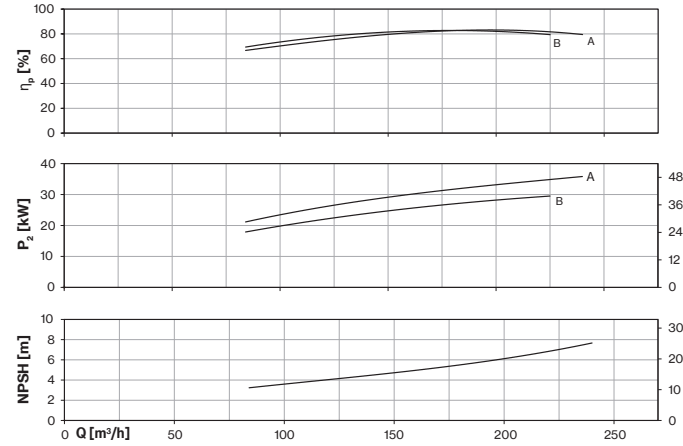
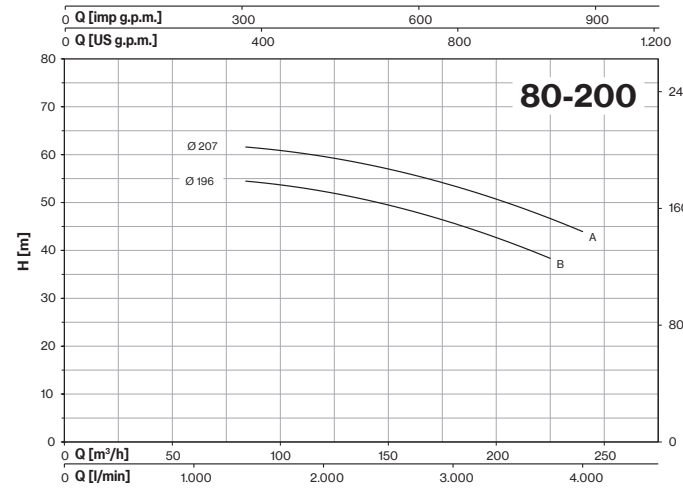
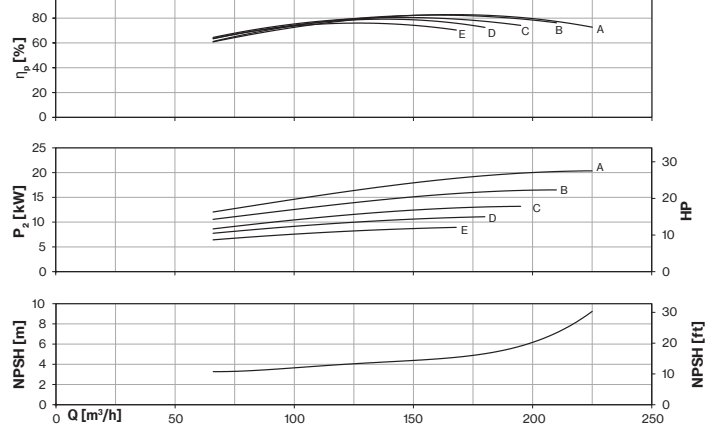
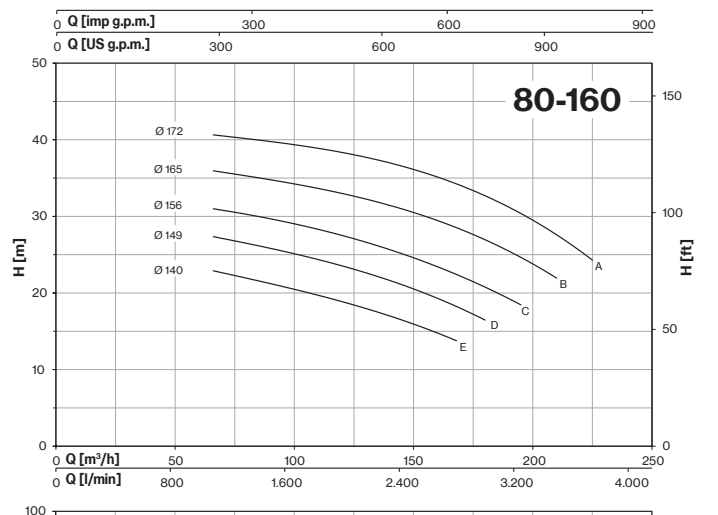
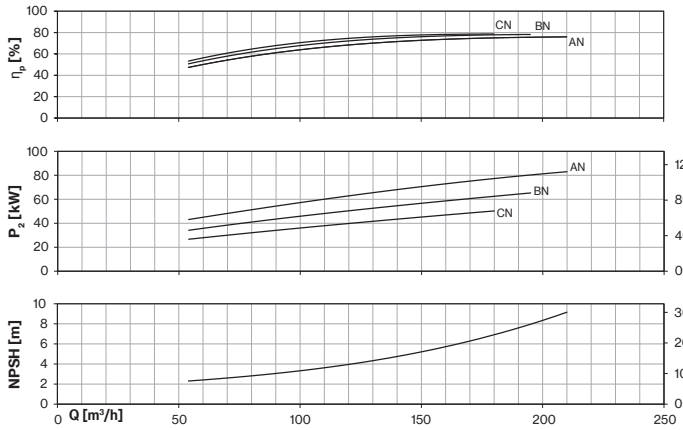
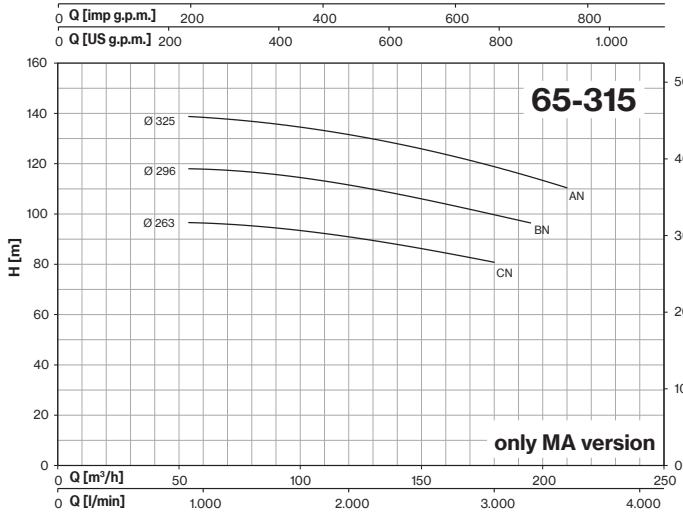
# MN-MNG-MNGX-MA-MAX ~ EN 733



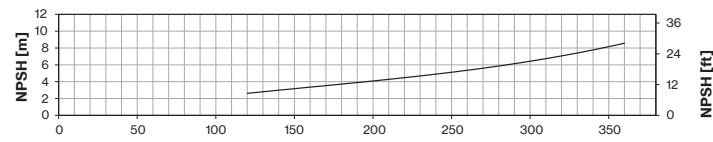
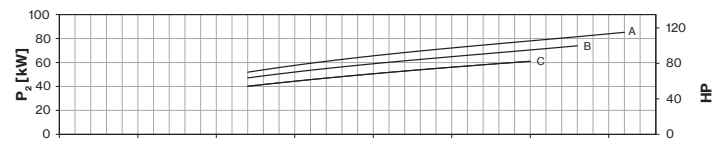
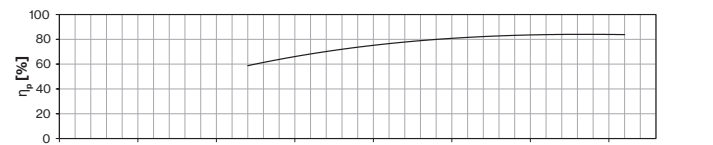
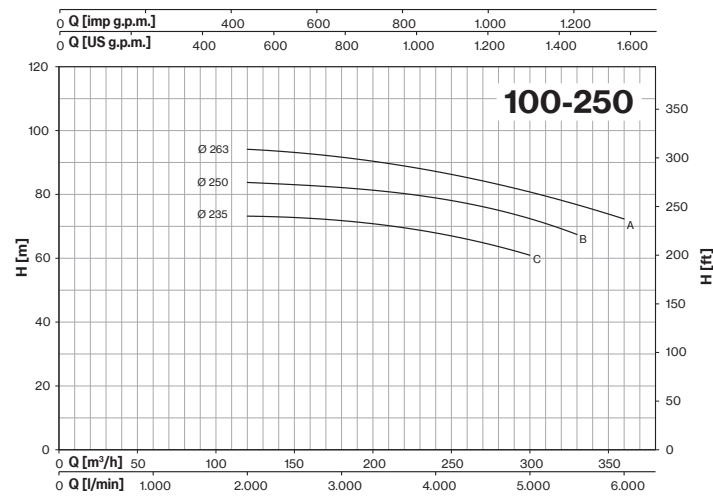
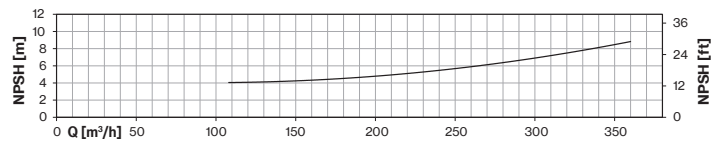
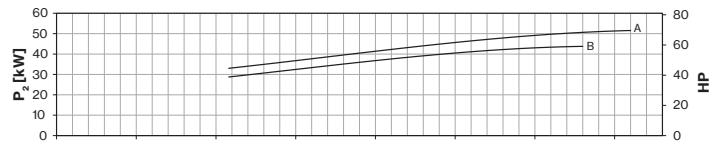
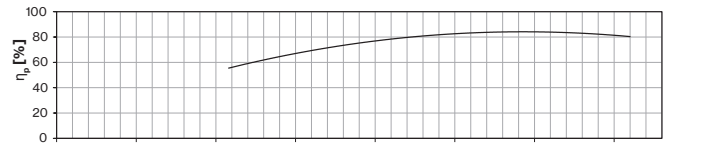
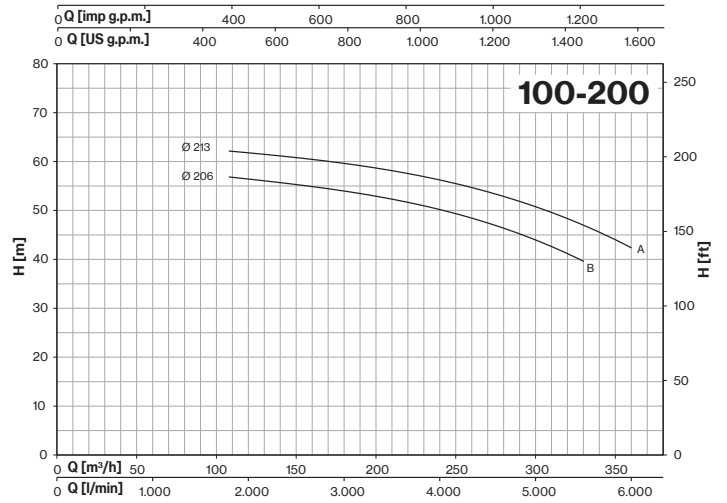
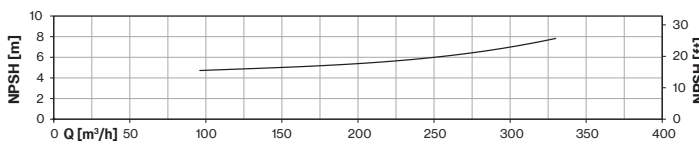
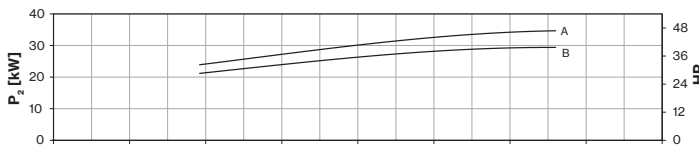
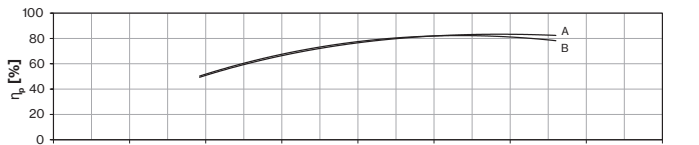
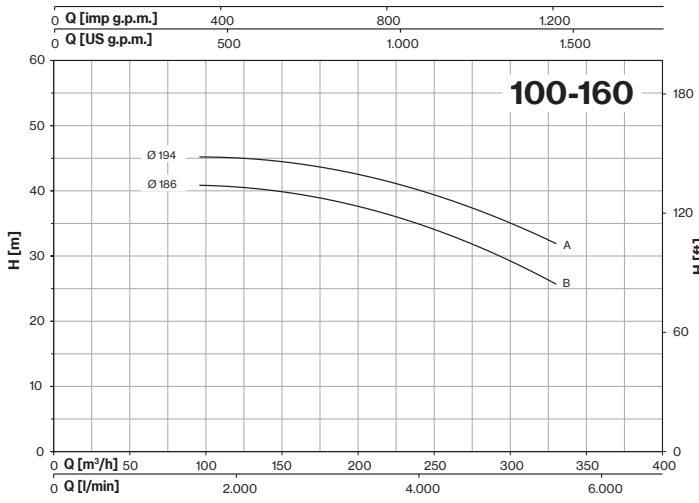
# MN-MNG-MNGX-MA-MAX ~ EN 733



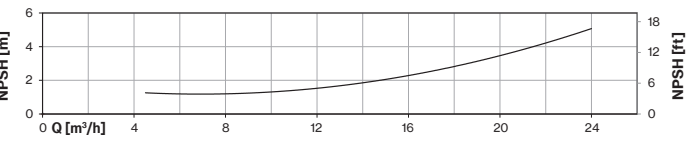
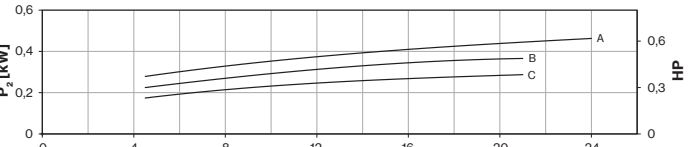
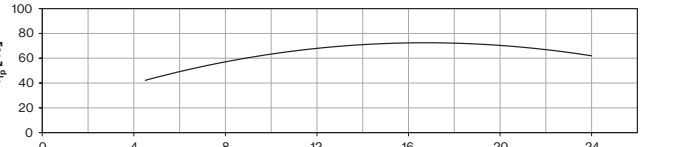
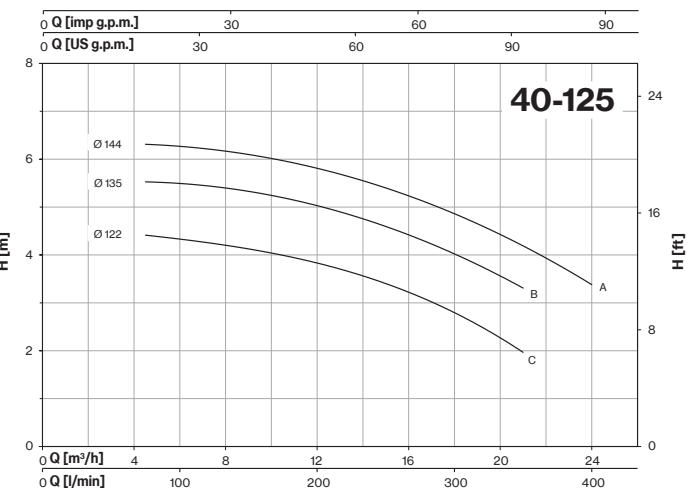
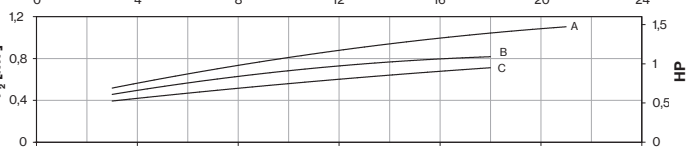
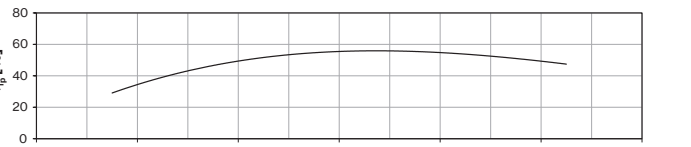
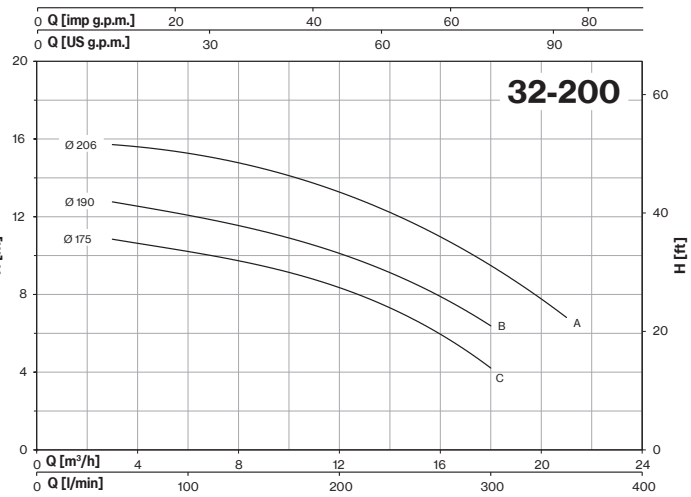
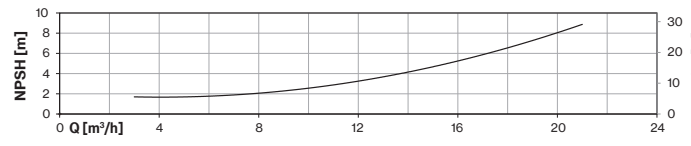
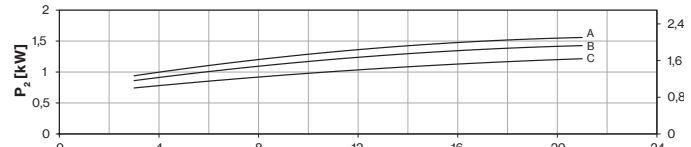
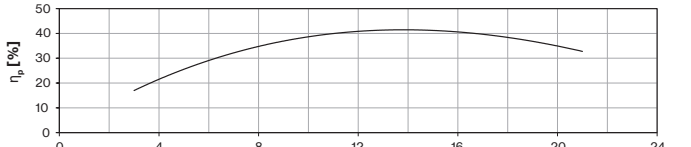
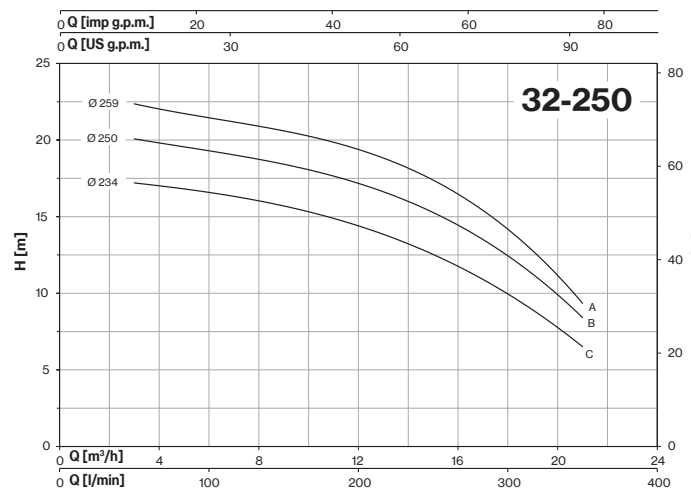
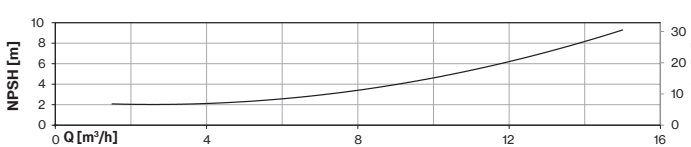
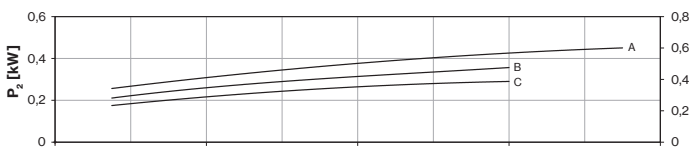
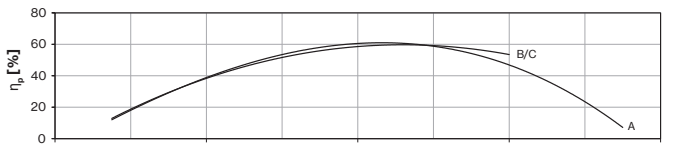
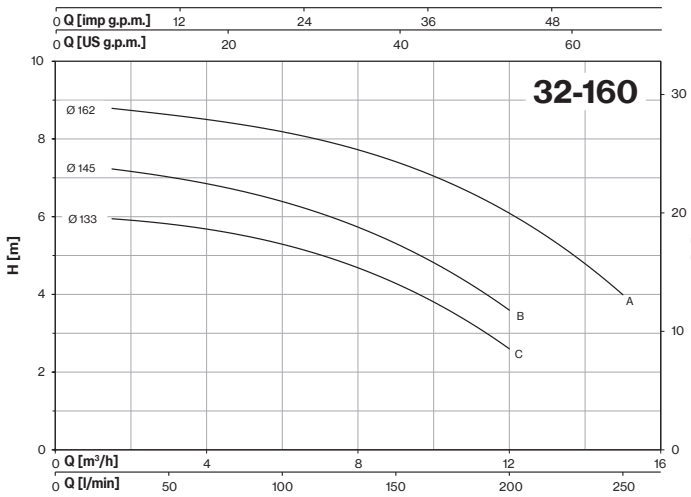
# MN-MNG-MNGX-MA-MAX ~ EN 733



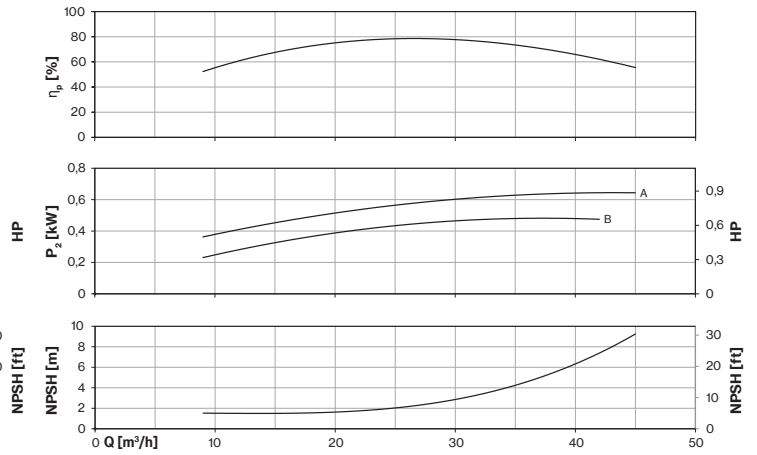
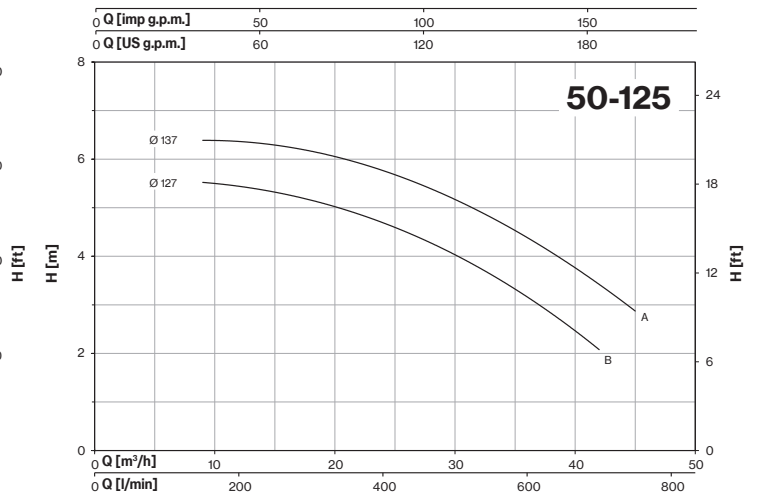
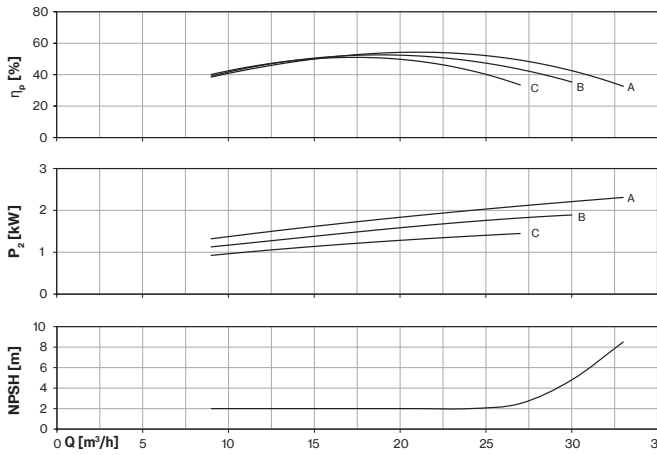
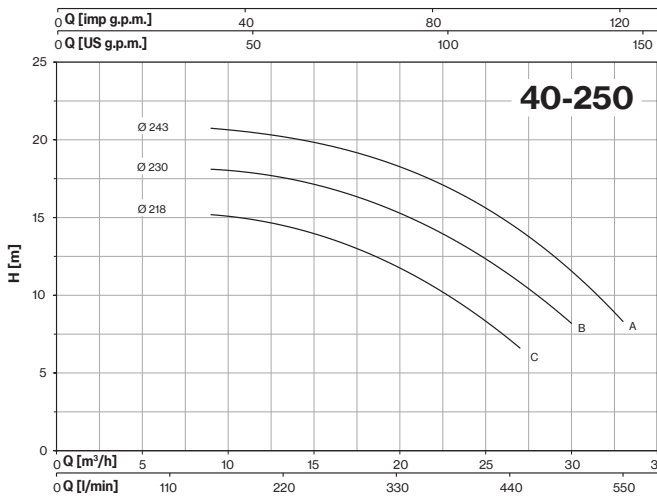
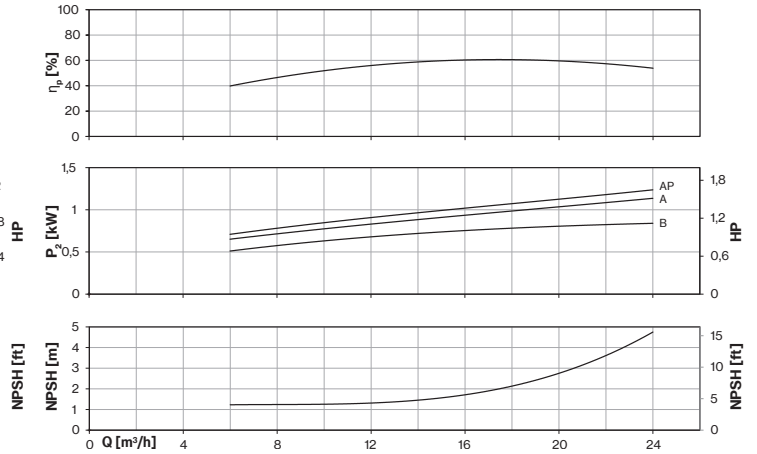
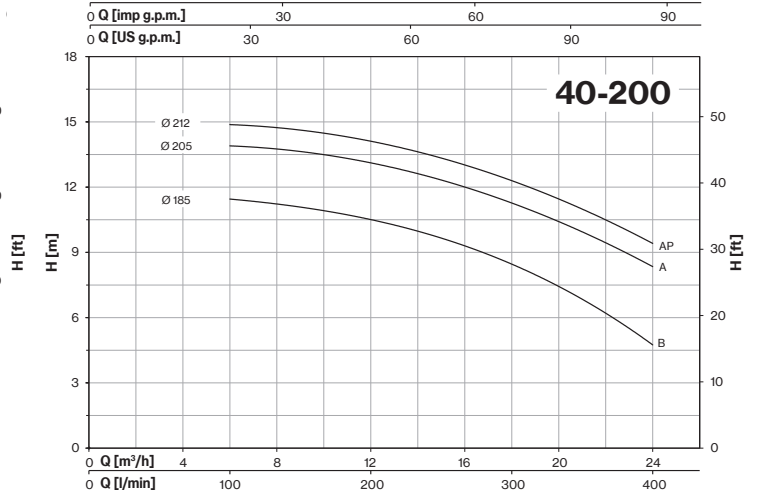
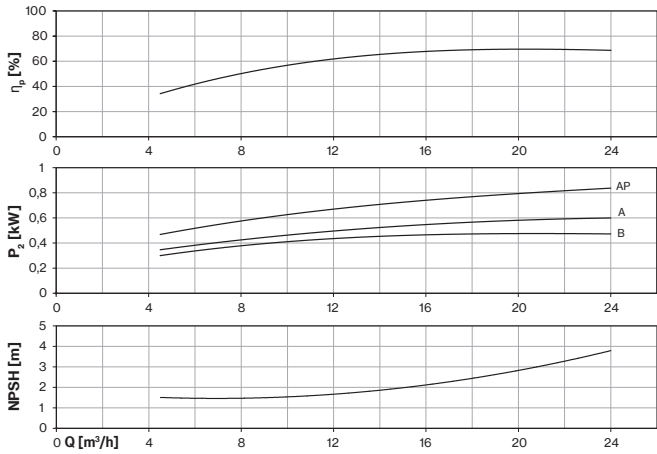
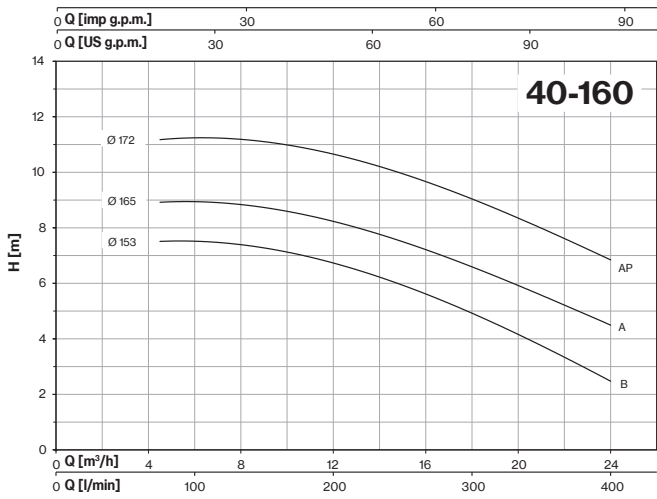
# MN-MNG-MNGX-MA-MAX ~ EN 733



# 4MA-4MAX ~ EN 733



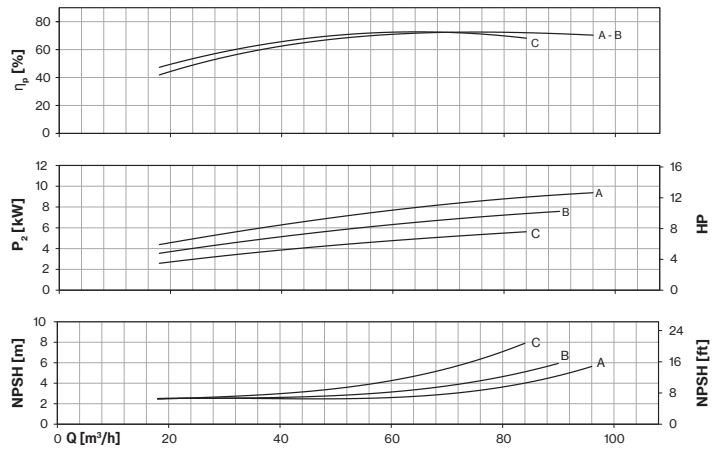
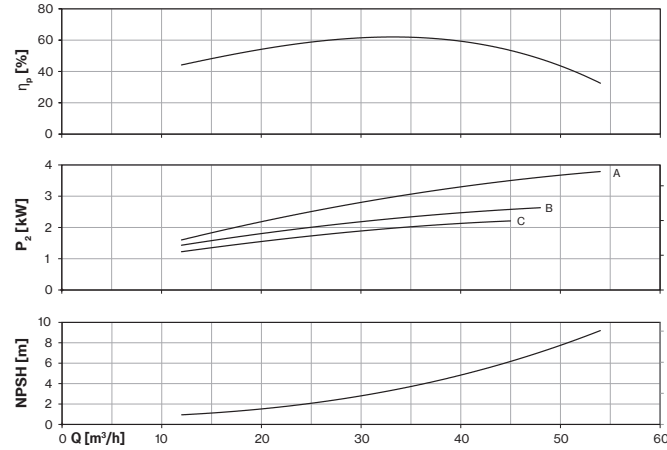
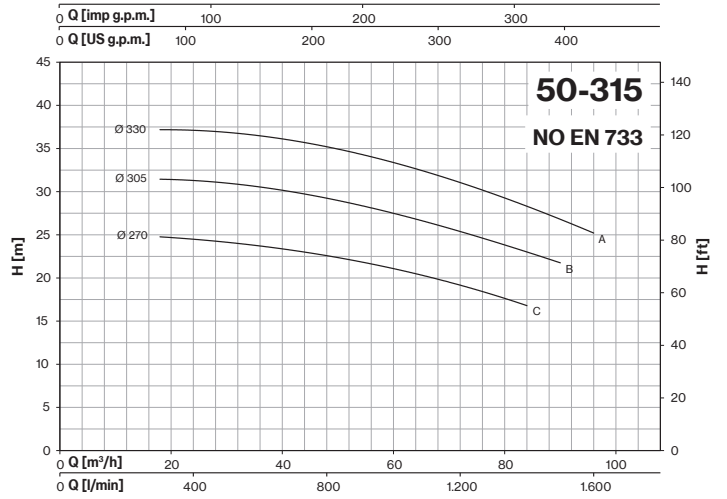
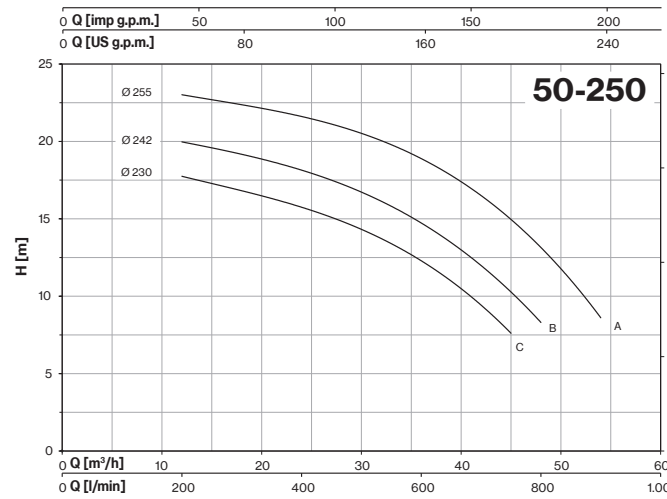
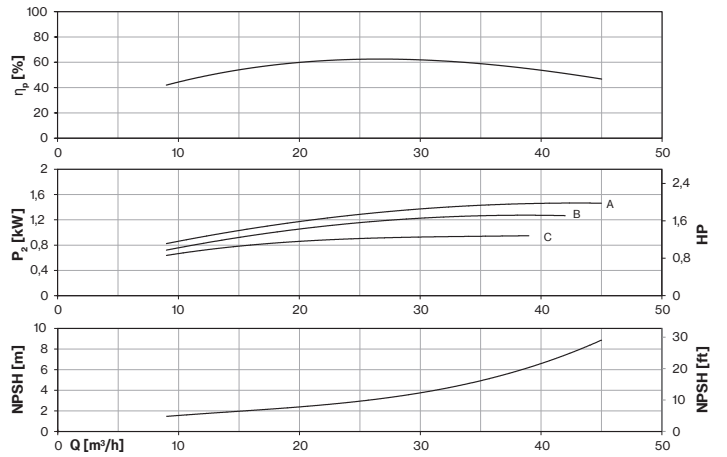
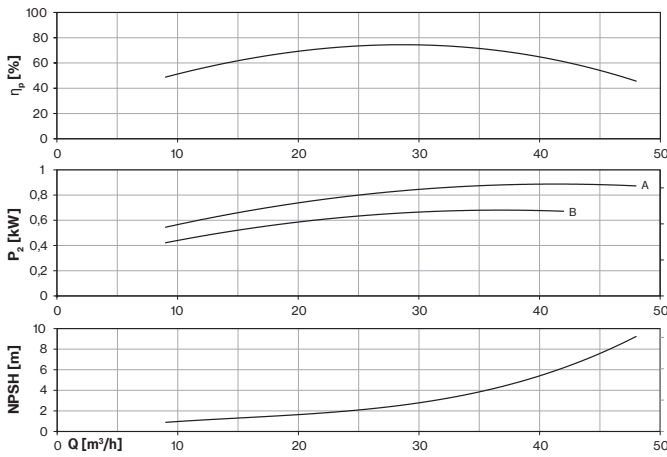
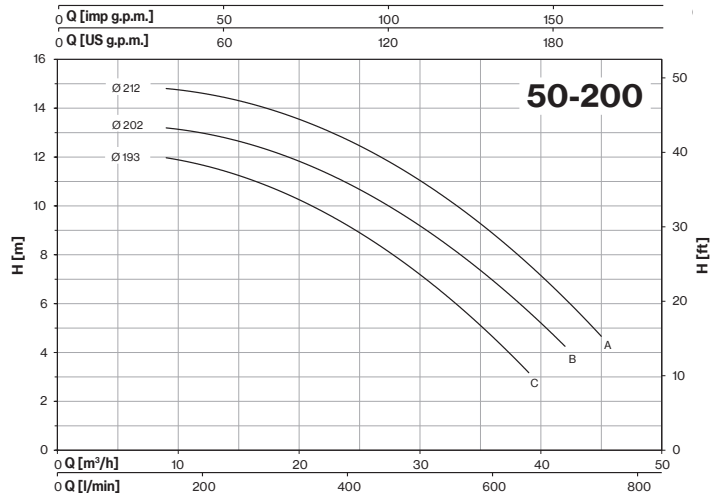
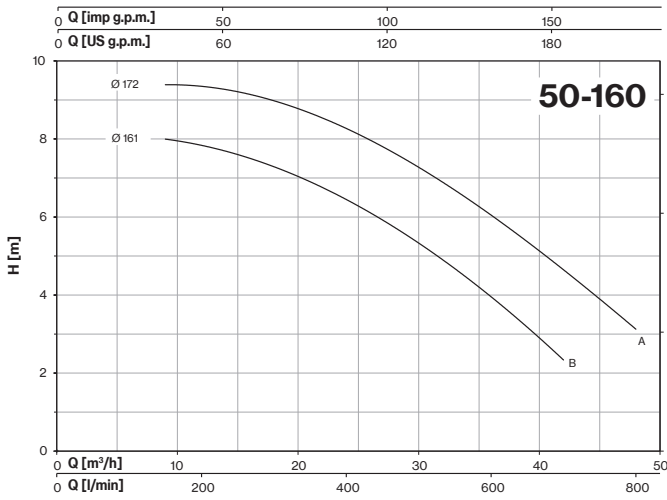
# 4MA-4MAX ~ EN 733

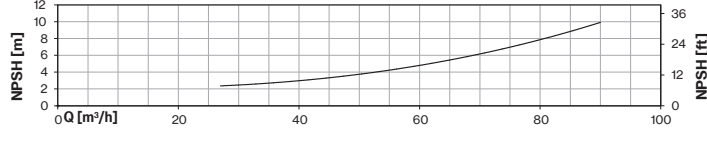
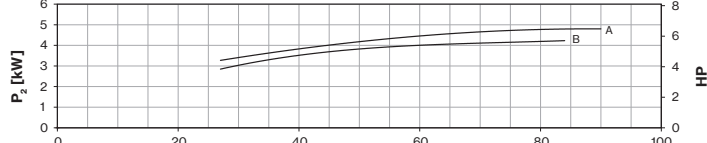
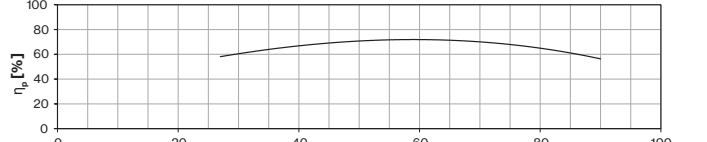
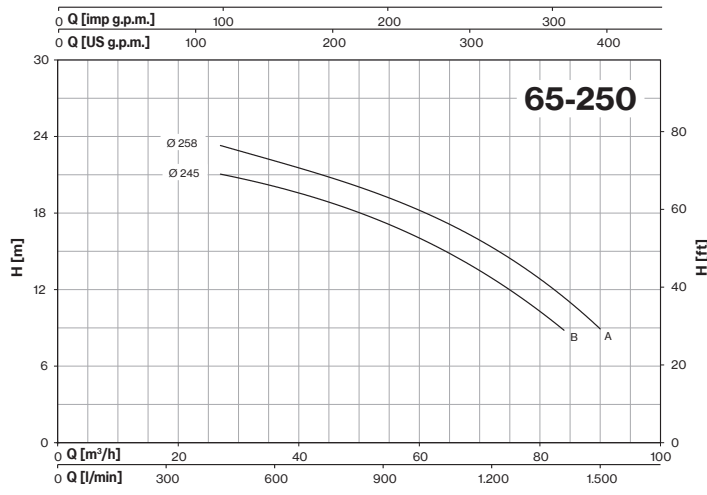
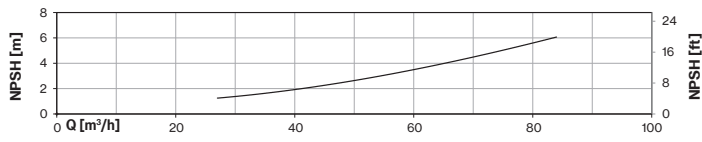
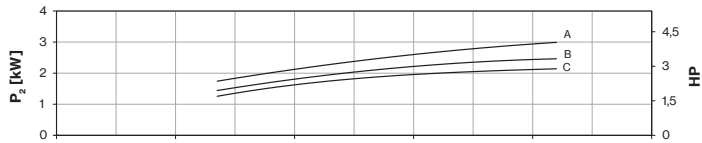
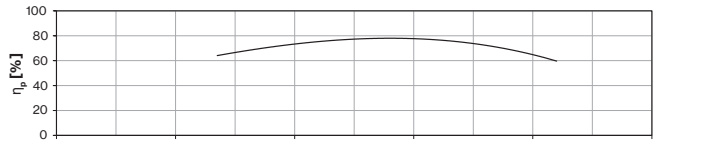
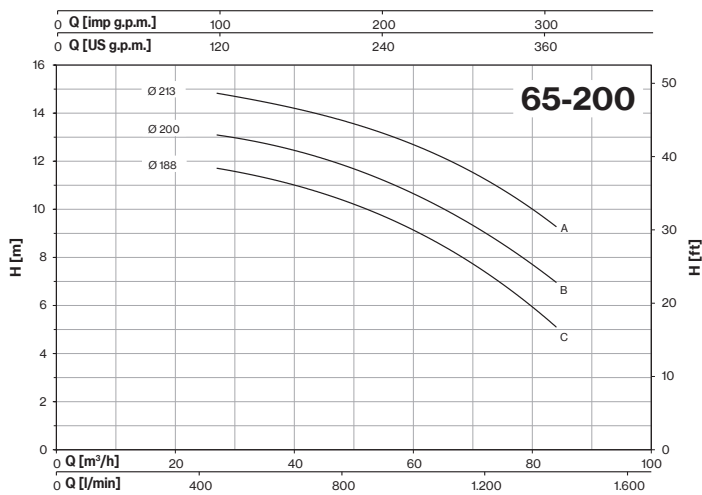
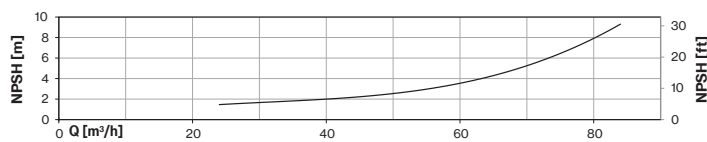
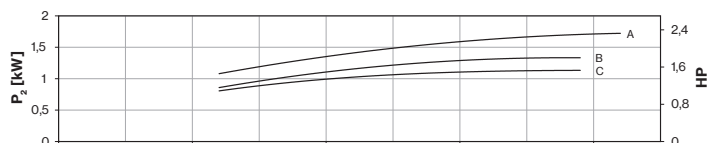
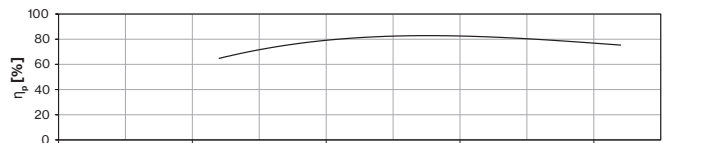
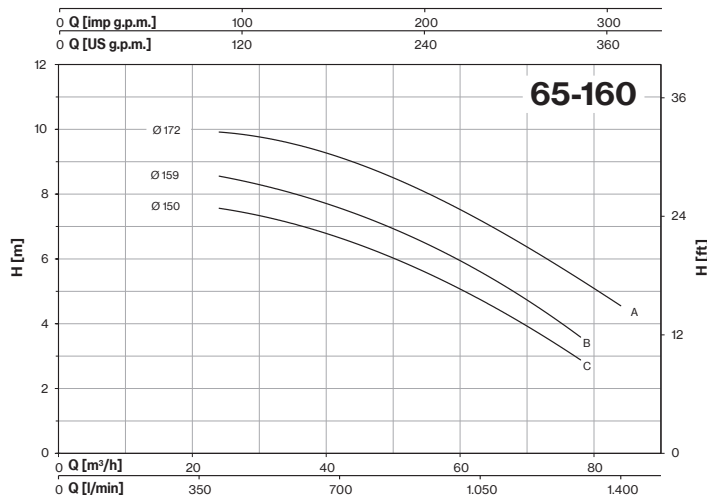
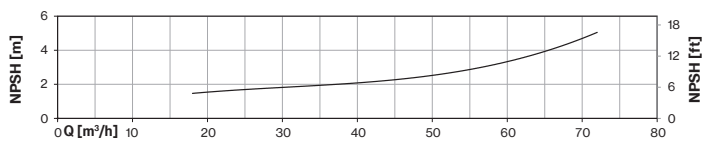
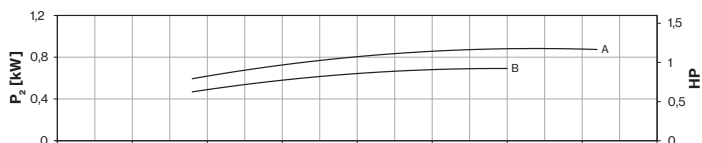
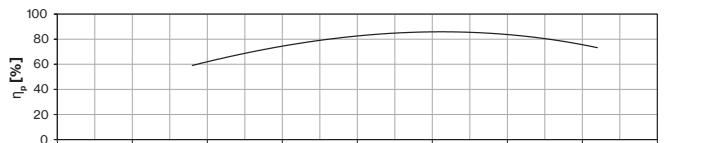
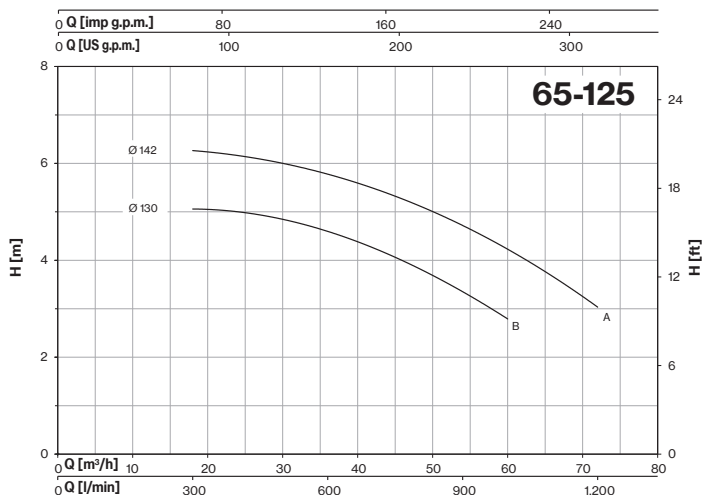


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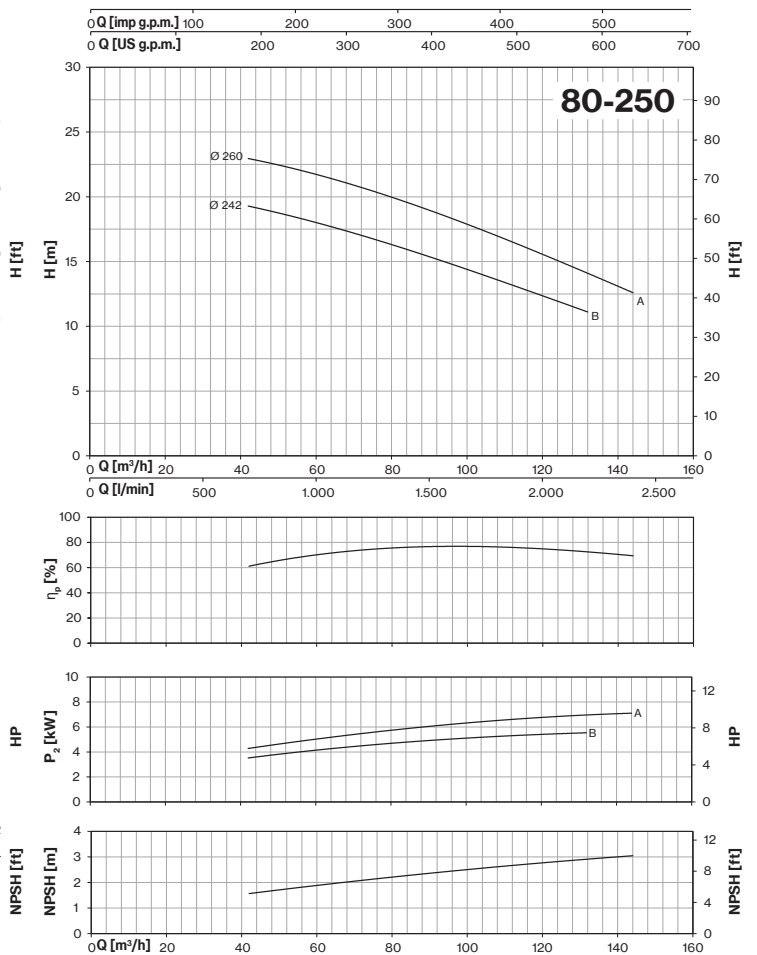
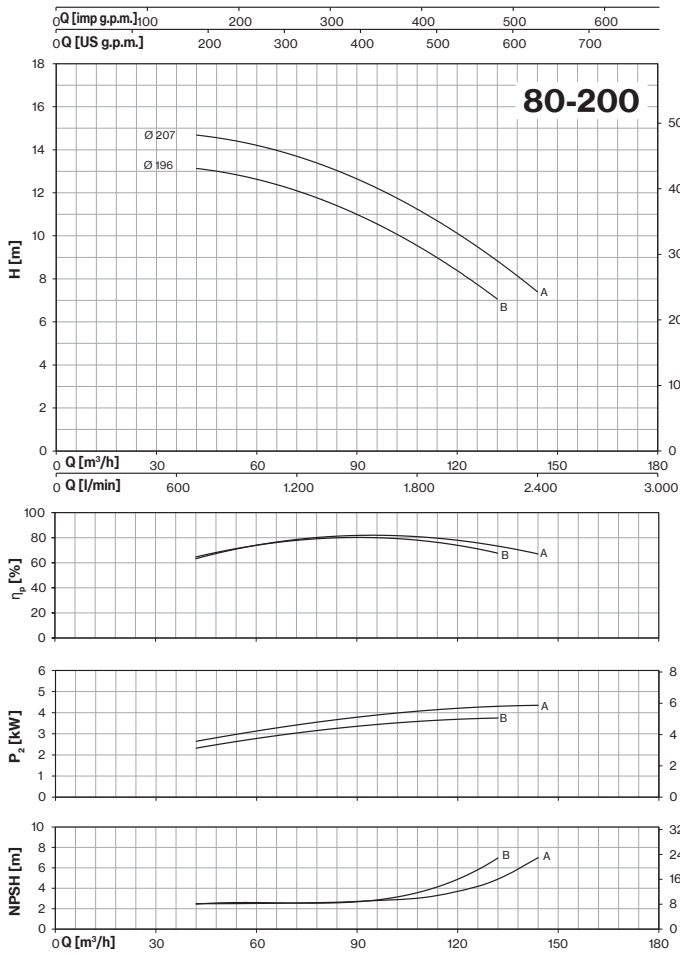
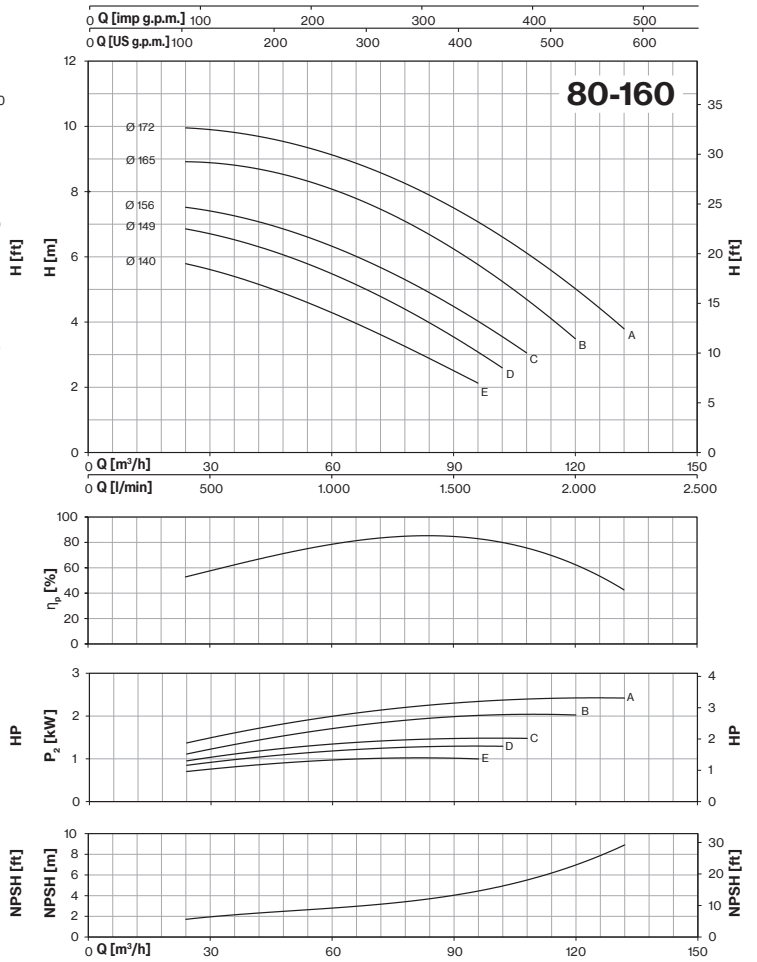
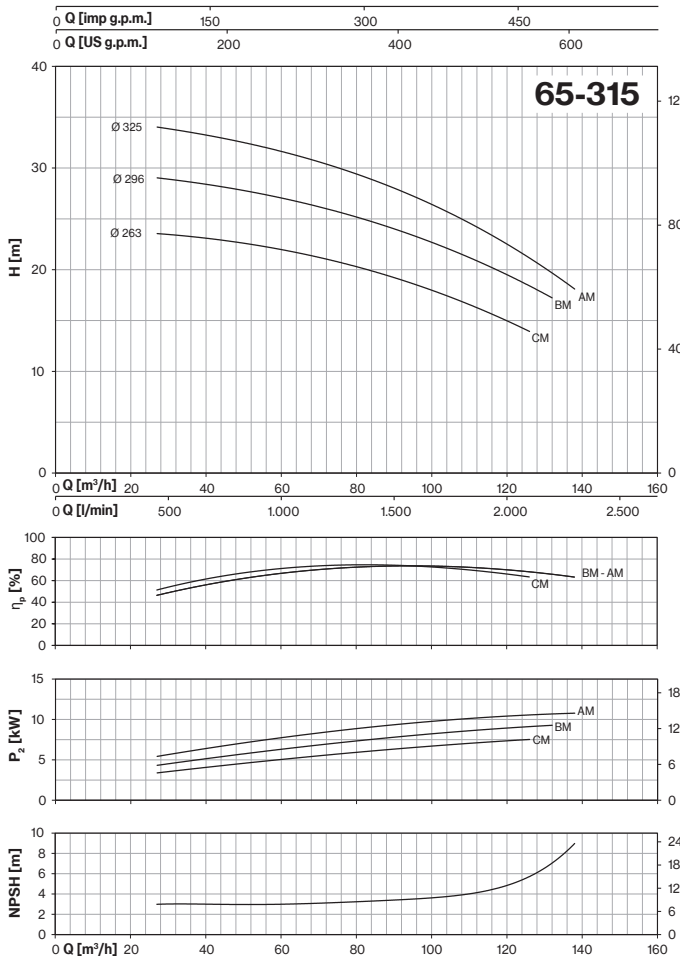
# 4MA-4MAX ~ EN 733



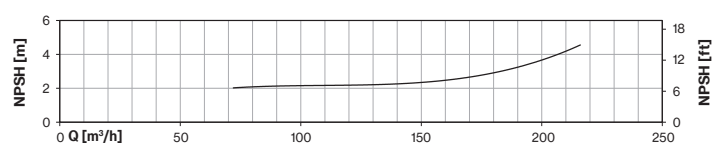
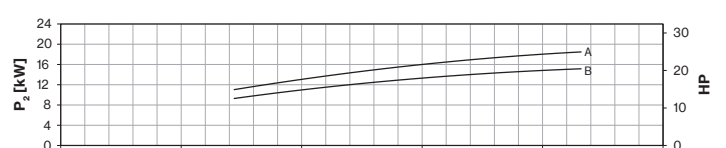
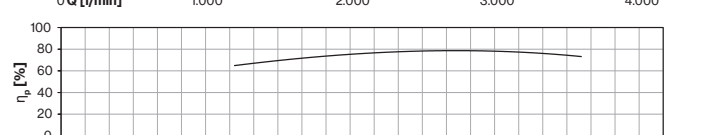
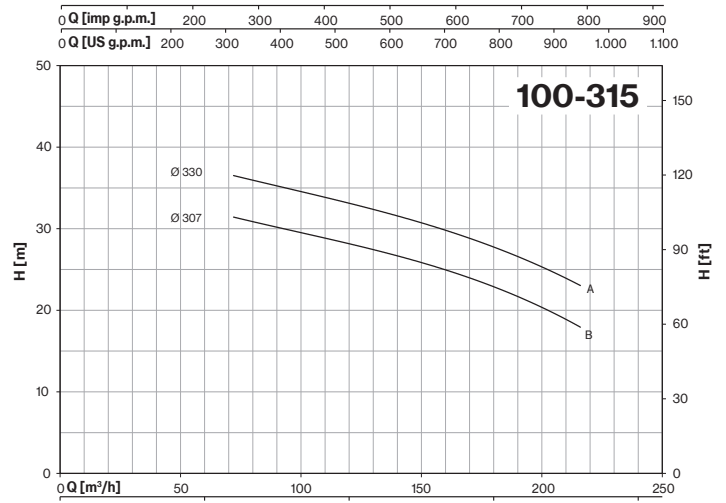
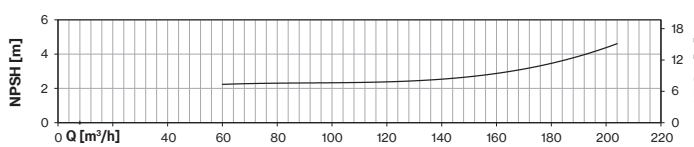
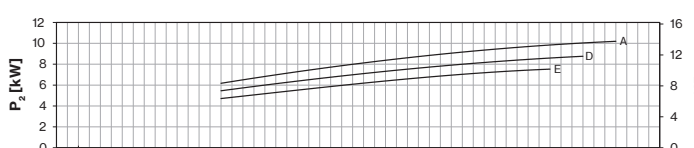
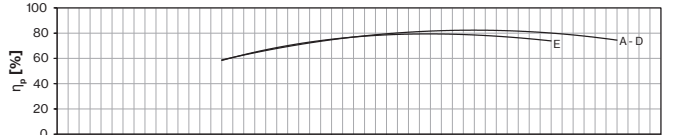
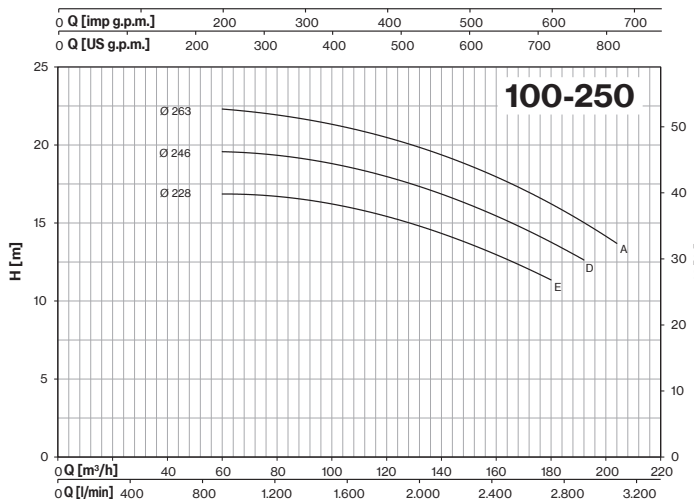
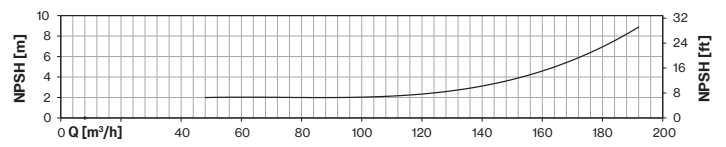
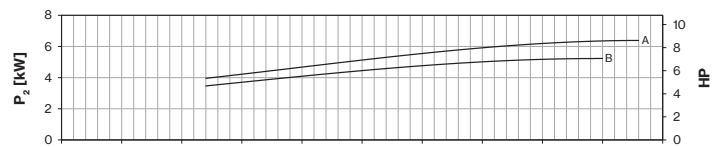
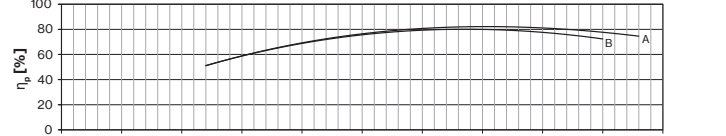
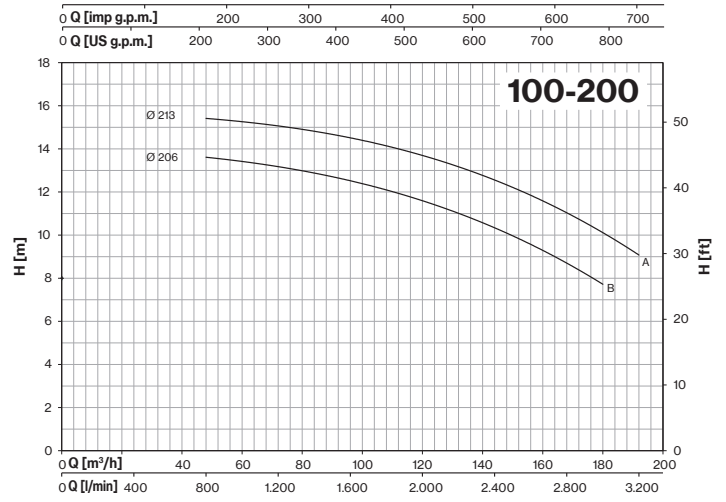
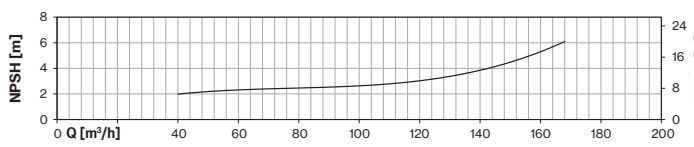
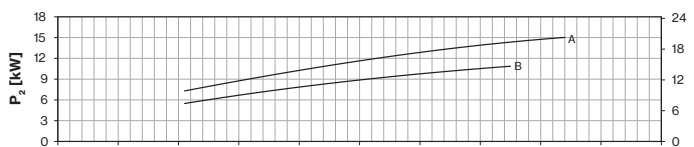
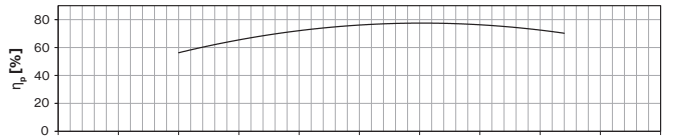
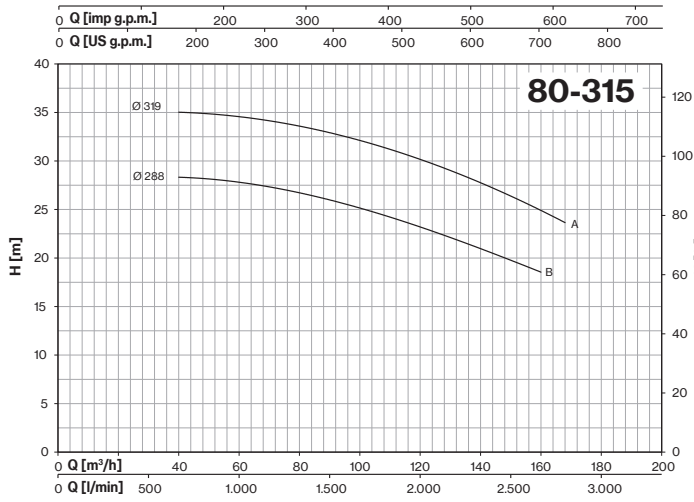




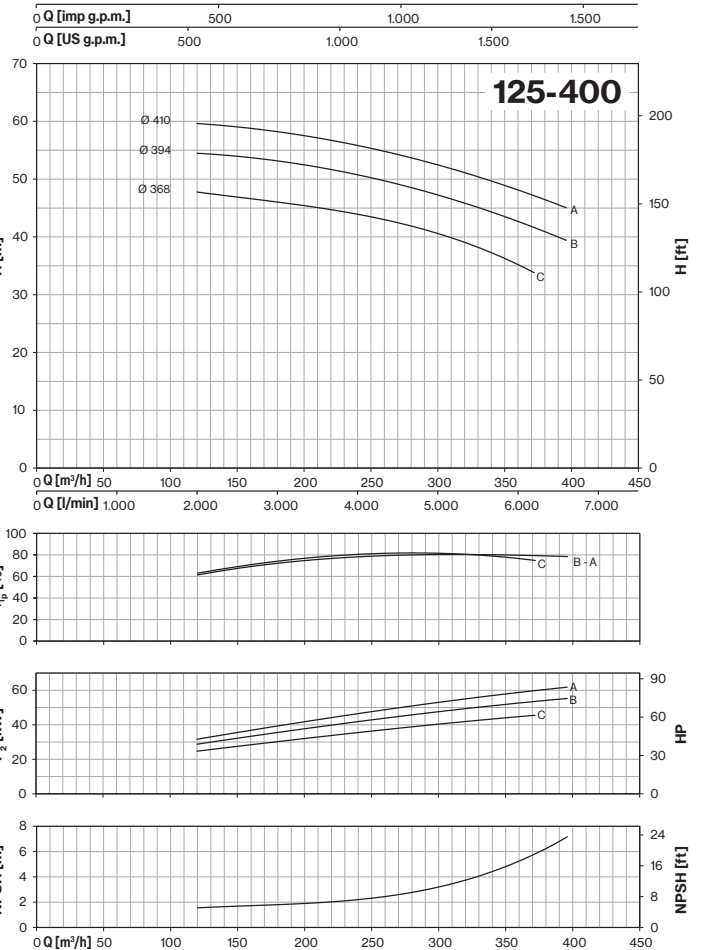
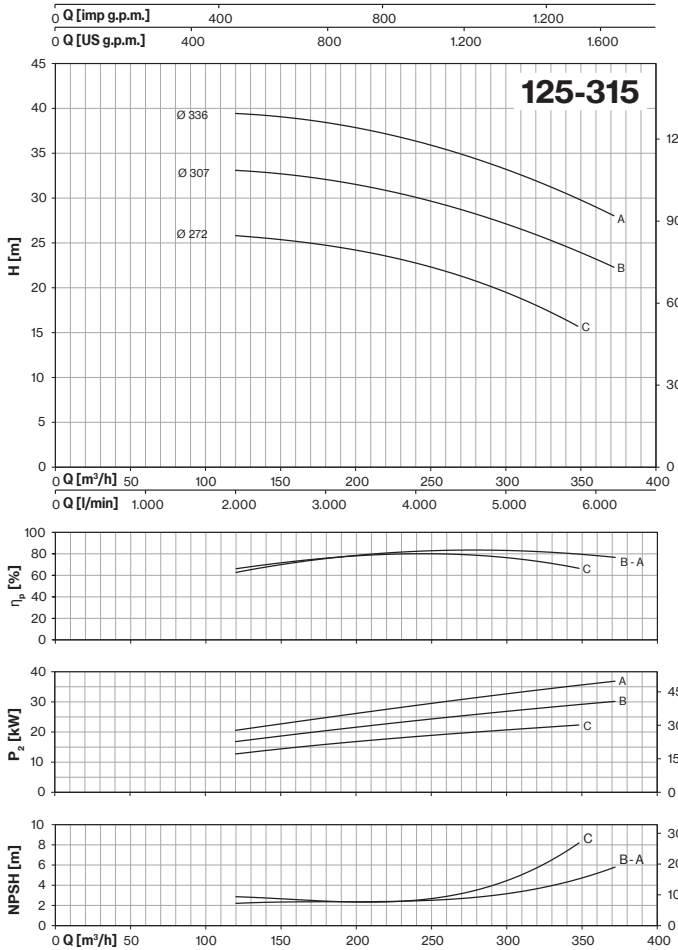
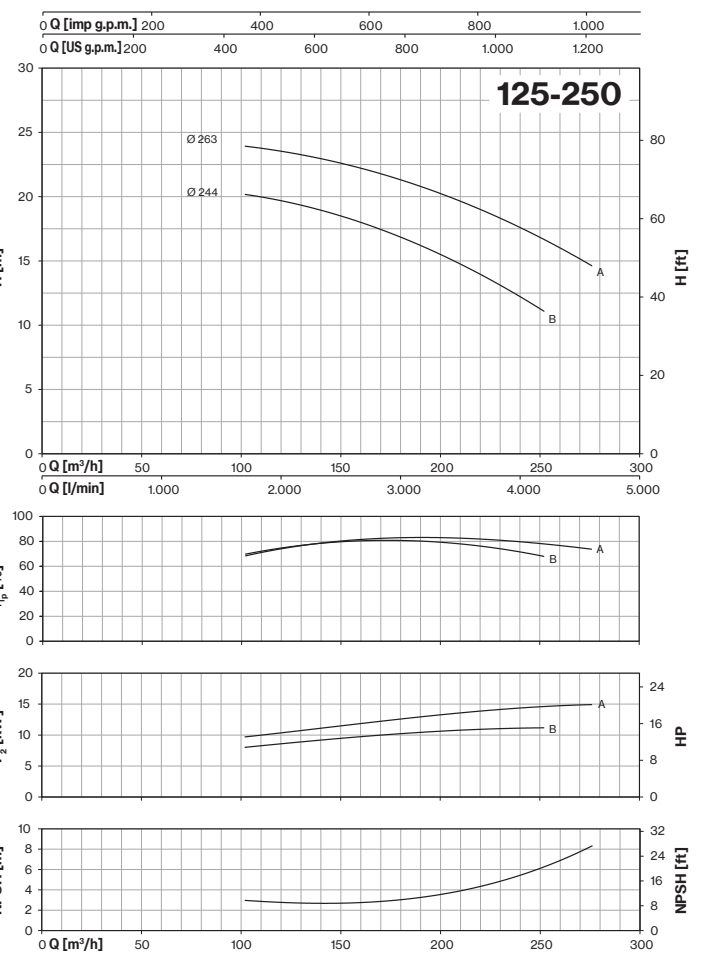
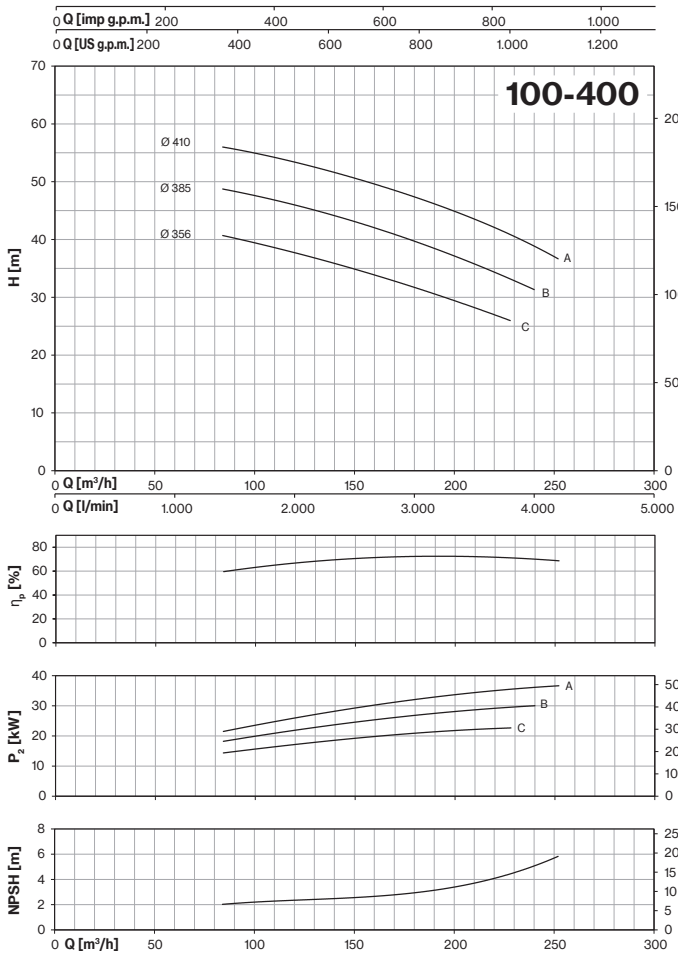
# 4MA-4MAX ~ EN 733



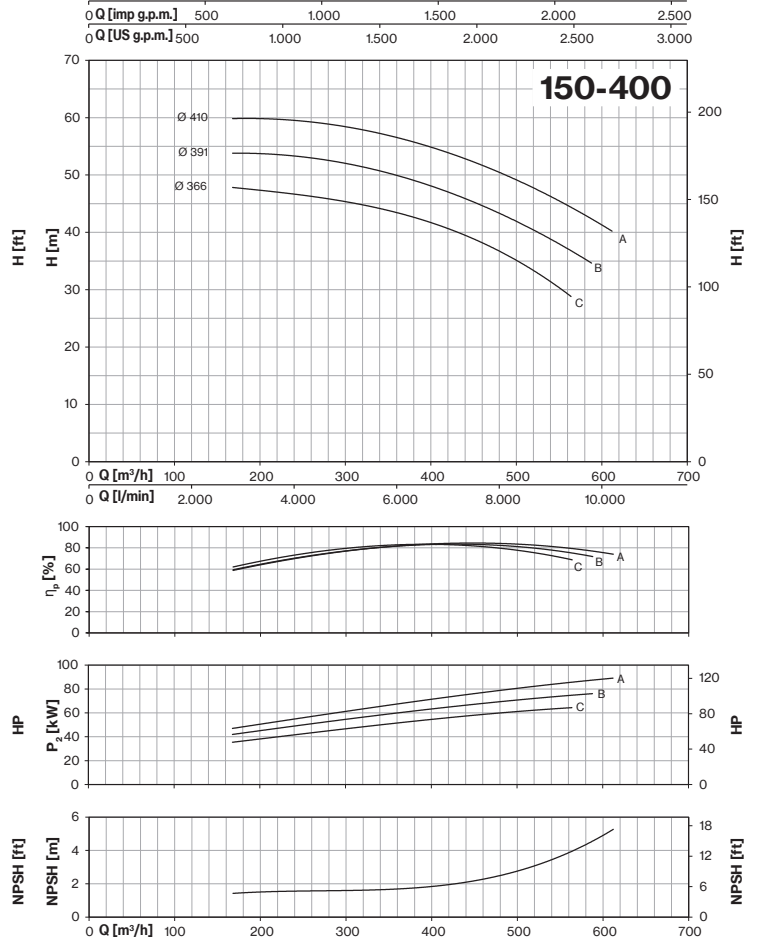
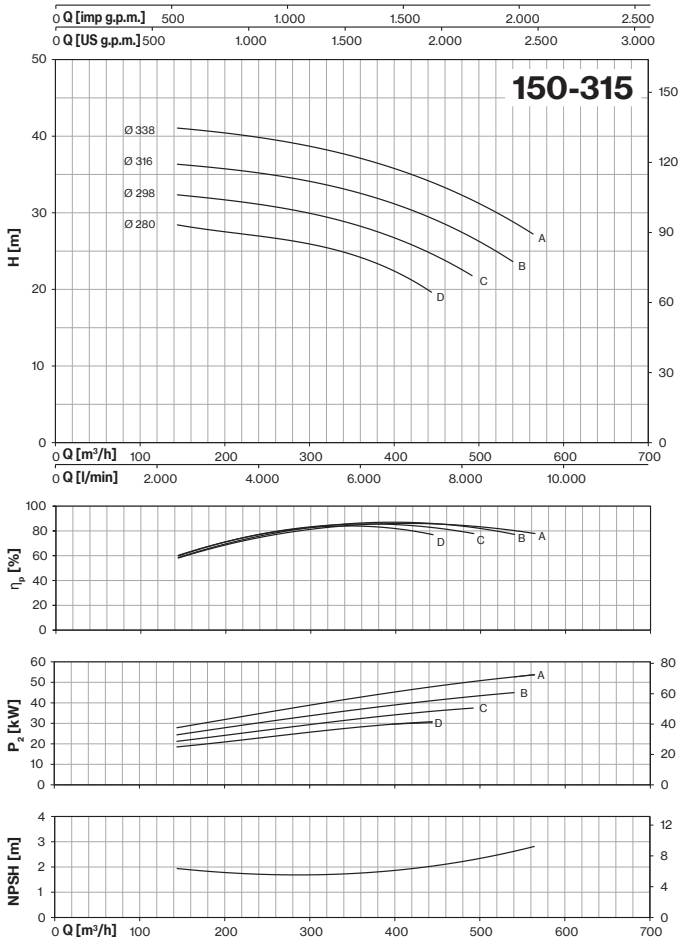
# 4MA-4MAX ~ EN 733



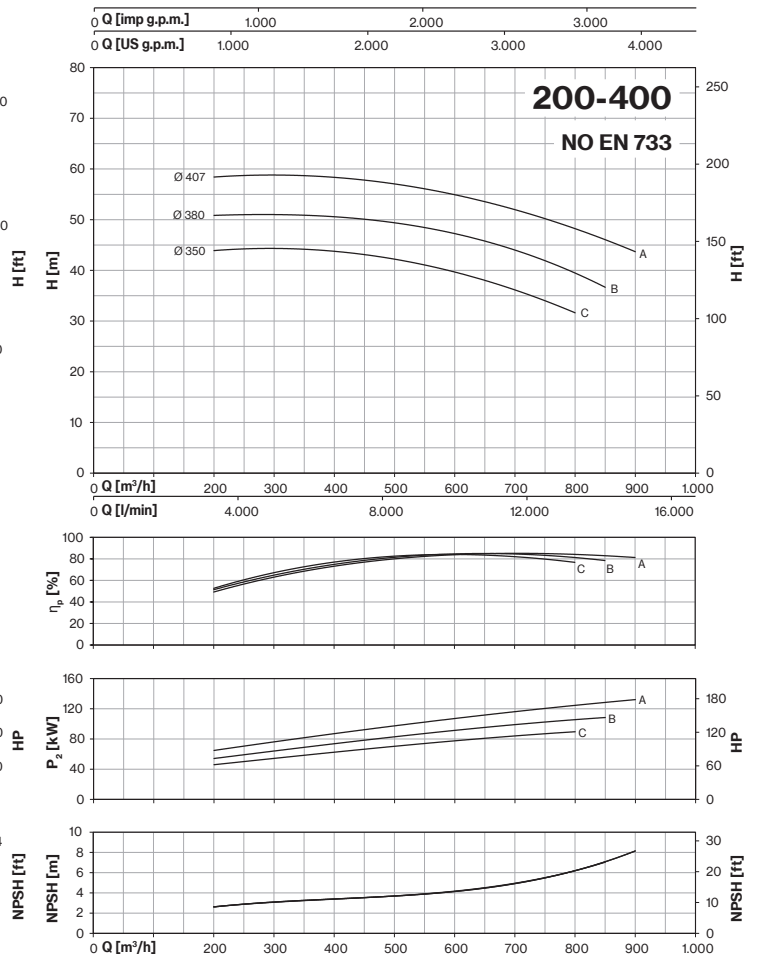
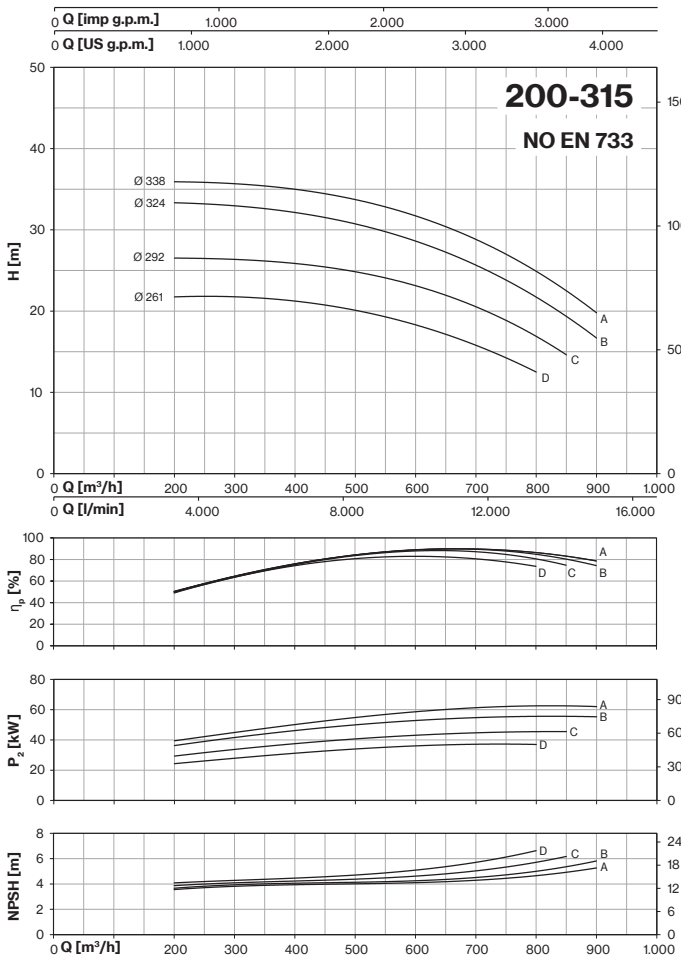
# 4MA-4MAX ~ EN 733



# 4MA-4MAX ~ EN 733



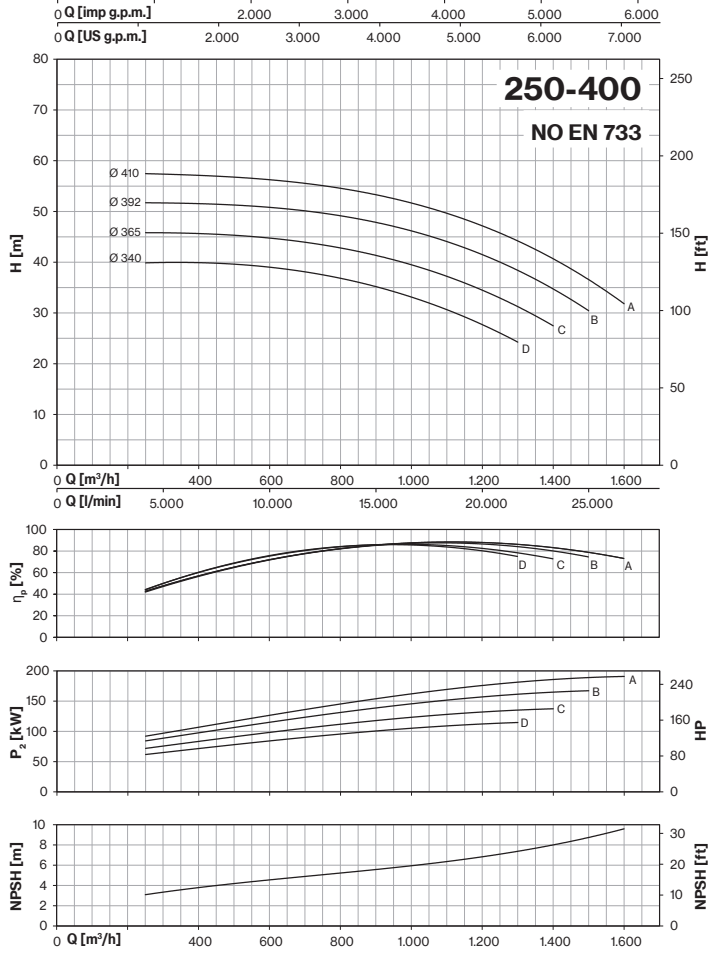
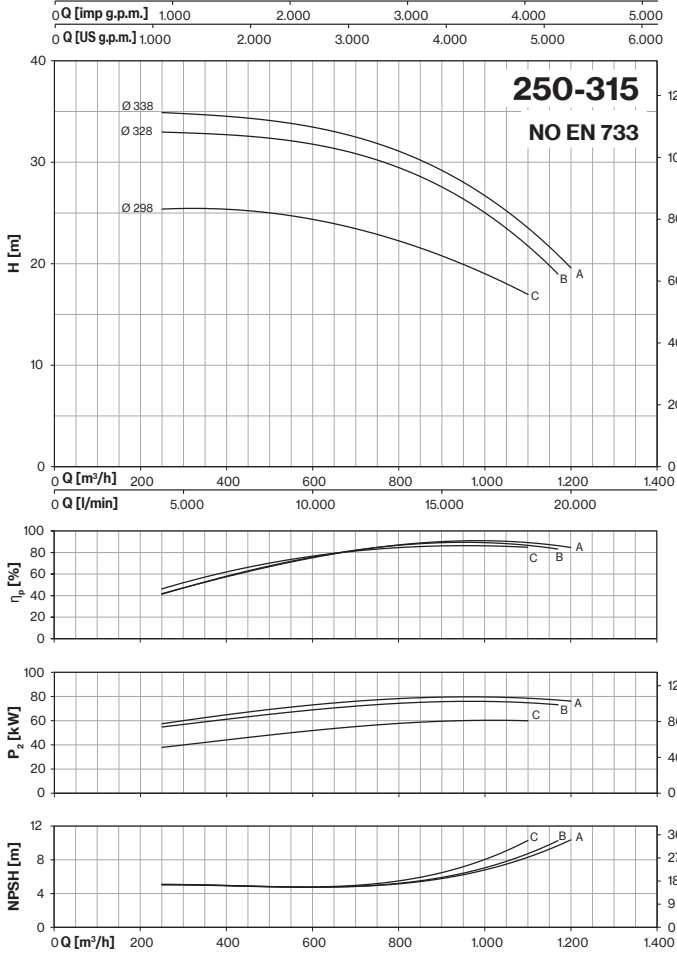
# 4MA-4MAX (No EN 733) ~ 1450 r.p.m.

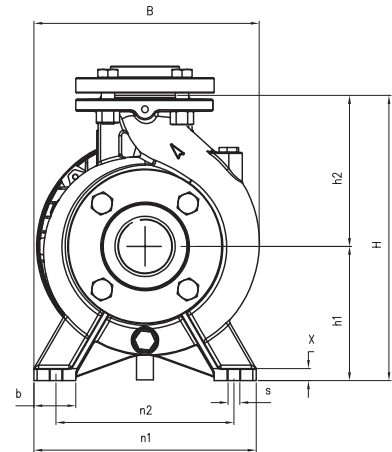
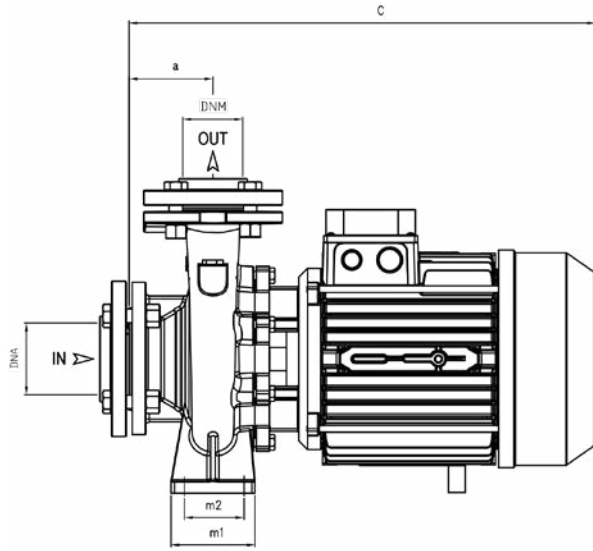


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



# 4MA-4MAX

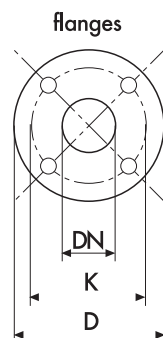


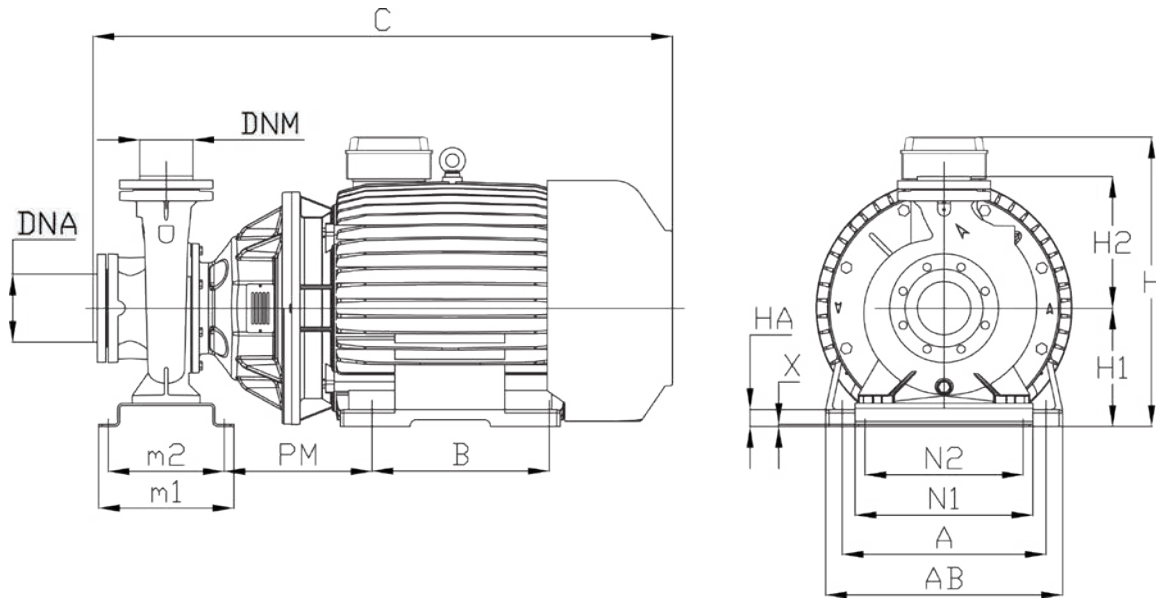


MEC	3- TYPE	1- TYPE	DIMENSIONS (mm)															M			Kg
			DNA	DNM	a	h1	h2	m1	m2	n1	n2	b	x	s	C	B	H	I	L	M	
90	32-160 C	32-160 C	50	32	80	132	160	100	70	240	190	50	12	14	530	240	292	551	250	341	41
90	32-160 B	32-160 B			80	132	160	100	70	240	190	50	12	14	530	240	292	551	250	341	44
90	32-160 A				80	132	160	100	70	240	190	50	12	14	530	240	292	551	250	341	47
112		32-200 C			80	160	180	100	70	240	190	50	12	14	574	268	340	602	263	395	65,5
100	32-200 C				80	160	180	100	70	240	190	50	12	14	540	268	340	602	263	395	56,5
132	32-200 B1				80	160	180	100	70	240	190	50	12	14	520	268	340	627	287	408	65,5
132	32-200 B				80	160	180	100	70	240	190	50	12	14	565	268	340	627	287	408	72
132	32-200 A1				80	160	180	100	70	240	190	50	12	14	520	268	340	627	287	408	72
132	32-200 A				80	160	180	100	70	240	190	50	12	14	565	268	340	627	287	408	79
132	32-250 C				100	180	225	125	95	320	250	65	12	14	625	305	405	666	346	471	101,5
132	32-250 B				100	180	225	125	95	320	250	65	14	14	625	305	405	666	346	471	105,5
160	32-250 A				100	180	225	125	95	320	250	65	14	14	695	305	405	810	354	480	135,5
90	40-125 C	40-125 C	65	40	80	112	140	100	70	210	160	50	12	14	535	220	252	551	250	341	41,5
90	40-125 B	40-125 B			80	112	140	100	70	210	160	50	12	14	535	220	252	551	250	341	44
90	40-125 A				80	112	140	100	70	210	160	50	12	14	535	220	252	551	250	341	47,5
100		40-160 B			80	132	160	100	70	240	190	50	12	14	535	245	292	551	250	341	56
100	40-160 B				80	132	160	100	70	240	190	50	12	14	535	245	292	551	250	341	52
112		40-160 A			80	132	160	100	70	240	190	50	15	14	579	245	292	602	263	395	64,5
100	40-160 A				80	132	160	100	70	240	190	50	15	14	535	245	292	602	263	395	56,5
112	40-160 AP				80	132	160	100	70	240	190	50	15	14	579	245	292	627	287	408	63
112	40-200 B1				100	160	180	100	70	265	212	50	15	14	597	273	340	627	287	408	68
132	40-200 B				100	160	180	100	70	265	212	50	15	14	590	273	340	627	287	408	74,5
112	40-200 A1				100	160	180	100	70	265	212	50	15	14	597	273	340	627	287	408	74
132	40-200 A				100	160	180	100	70	265	212	50	15	14	590	273	340	627	287	408	81
132	40-200 AP				100	160	180	100	70	265	212	50	15	14	628	273	340	666	346	471	93,5
132	40-250 C				100	180	225	125	95	320	250	65	15	14	630	322	405	666	346	471	100,5
132	40-250 B				100	180	225	125	95	320	250	65	15	14	630	322	405	666	346	471	105
160	40-250 A				100	180	225	125	95	320	250	65	15	14	700	322	405	810	354	480	135
132	40-250 BM				100	180	225	125	95	320	250	65	15	14	750	332	405	810	354	480	150
160	40-250 AM				100	180	225	125	95	320	250	65	15	14	750	332	405	810	354	480	160,5
100		50-125 B	65	50	100	132	160	100	70	240	190	50	12	14	525	250	292	602	263	395	57,5
100	50-125 B				100	132	160	100	70	240	190	50	12	14	560	250	292	602	263	395	53,5
112		50-125 A			100	132	160	100	70	240	190	50	12	14	610	250	292	602	263	395	65,5
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112	50-160 B1				100	160	180	100	70	265	212	50	12	14	597	270	340	627	287	408	68,5
132	50-160 B				100	160	180	100	70	265	212	50	12	14	590	270	340	627	287	408	74,5
112	50-160 A1				100	160	180	100	70	265	212	50	12	14	597	270	340	627	287	408	74,5
132	50-160 A				100	160	180	100	70	265	212	50	12	14	590	270	340	627	287	408	81
132	50-200 C				100	160	200	100	70	265	212	50	12	14	635	290	360	666	346	471	98
132	50-200 B				100	160	200	100	70	265	212	50	12	14	635	290	360	666	346	471	102,5
160	50-200 A				100	160	200	100	70	265	212	50	12	14	705	290	360	810	354	480	132,5
160	50-250 C				100	180	225	125	95	320	250	65	14	14	705	332	405	810	354	480	139
160	50-250 B				100	180	225	125	95	320	250	65	14	14	750	332	405	810	354	480	154
160	50-250 A				100	180	225	125	95	320	250	65	14	14	750	332	405	810	354	480	164

MEC	3- TYPE	1- TYPE	DIMENSIONS (mm)																		
			DNA	DNM	a	h1	h2	m1	m2	n1	n2	b	x	s	C	B	H			I	L
112	65-125 B1		80	65	100	160	180	125	95	280	212	65	14	14	612	280	340	627	287	408	70
132	65-125 B				100	160	180	125	95	280	212	65	14	14	605	280	340	627	287	408	76,5
112	65-125 A1				100	160	180	125	95	280	212	65	14	14	612	280	340	627	287	408	76,5
132	65-125 A				100	160	180	125	95	280	212	65	14	14	605	280	340	627	287	408	83
132	65-160 C				100	160	200	125	95	280	212	65	14	14	635	290	360	666	346	471	99,5
132	65-160 B				100	160	200	125	95	280	212	65	14	14	635	290	360	666	346	471	103,5
160	65-160 A				100	160	200	125	95	280	212	65	14	14	705	290	360	810	354	480	135
160	65-200 C				100	180	225	125	95	320	250	65	14	14	705	330	405	810	354	480	138,5
160	65-200 B				100	180	225	125	95	320	250	65	14	14	750	330	405	810	354	480	153
160	65-200 A				100	180	225	125	95	320	250	65	14	14	750	330	405	810	354	480	163,5
180	65-250 B				100	200	250	160	120	360	280	80	16	19	820	370	450	920	420	625	203,5
180	65-250 A				100	200	250	160	120	360	280	80	16	19	860	370	450	920	420	625	226
132	80-160 E		100	80	125	180	225	125	95	320	250	65	14	14	665	330	405	810	354	480	110
132	80-160 D				125	180	225	125	95	320	250	65	14	14	665	330	405	810	354	480	114
160	80-160 C				125	180	225	125	95	320	250	65	14	14	735	330	405	810	354	480	143
160	80-160 B				125	180	225	125	95	320	250	65	14	14	780	330	405	810	354	480	157,5
160	80-160 A				125	180	225	125	95	320	250	65	14	14	780	330	405	810	354	480	168
180	80-200 B				125	180	250	125	95	345	280	65	16	14	840	355	430	920	420	625	200
180	80-200 A				125	180	250	125	95	345	280	65	16	14	880	355	430	920	420	625	222
180	100-160 B				125	100	125	200	280	160	120	360	280	80	18	18	842	390	480	920	420
180	100-160 A		125	200			280	160	120	360	280	80	18	18	882	390	480	920	420	625	230,5

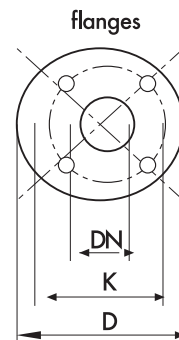
DIMENSIONS (mm)				
DN	D	K	holes	
			n°	Ø
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	4	18
80	200	160	8	18
100	220	180	8	18
125	250	210	8	18





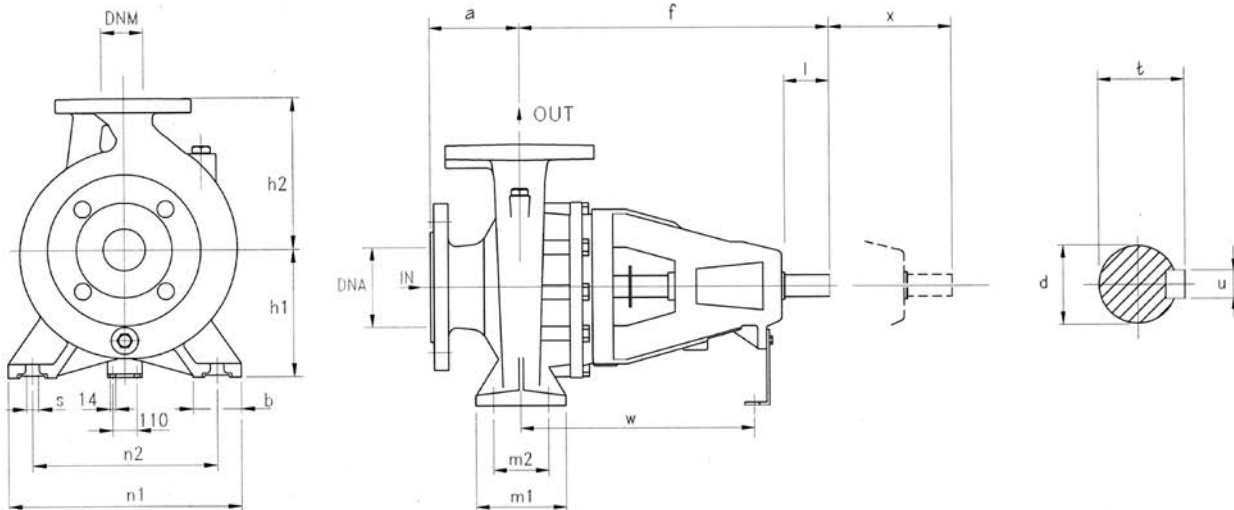
TYPE	DIMENSIONS (mm)															Kg
	DNA	DNM	m1	m2	N2	N1	H1	H2	H	A	AB	B	PM	C	HA	
80-250B	100	80	200	120	315	406	225	317	550	356	435	311	356	1130	28	418
80-250A			320	280	360	420	280	317	650	406	485	349	325	1240	58	505
100-200B	125	100	200	120	280	360	225	321	550	356	435	311	356	1130	28	417
100-200A			320	280	360	420	280	321	650	406	485	349	325	1240	60	505
100-250C			320	280	360	420	280	321	675	406	485	349	325	1315	60	516
100-250B			320	280	360	420	280	321	675	457	545	368	347	1315	35	645
100-250A			320	280	360	420	280	321	675	457	545	419	347	1370	35	680

DIMENSIONS (mm)				
DN	D	K	holes	
			n°	Ø
80	200	160	8	18
100	220	180	8	18
125	250	210	8	18



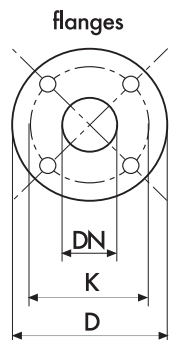


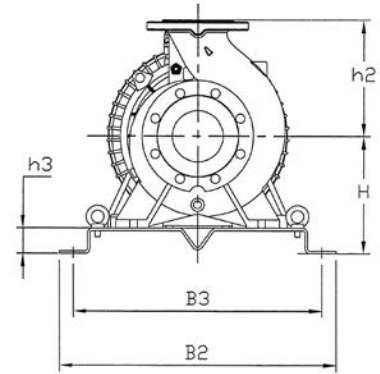
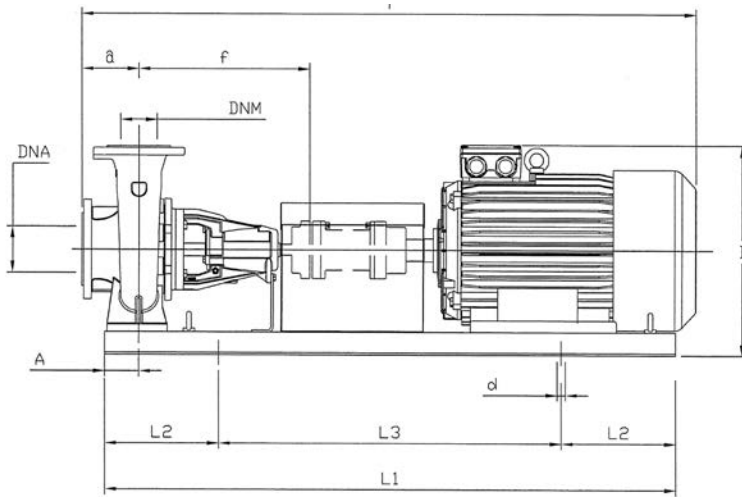
**MA-MAX EN 733 ~ 2900 r.p.m.**  
**4MA-4MAX EN 733 ~ 1450 r.p.m.**



TYPE	DIMENSIONS (mm)																		L	M	Kg	
	DNA	DNM	a	f	h1	h2	m1	m2	n1	n2	s	b	l	d	t	u	x	w				
32-160			80	360	132	160	100	70	240	190	14	50	50	24	27	8	100	260	535	320	445	38
32-200	50	32	80	360	160	180	100	70	240	190	14	50	50	24	27	8	100	260	535	320	445	41
32-250			100	360	180	225	125	95	320	250	14	65	65	24	27	8	100	260	545	405	545	49
40-125			80	360	112	140	100	70	210	160	14	50	50	24	27	8	100	260	535	320	445	37
40-160			80	360	132	160	100	70	240	190	14	50	50	24	27	8	100	260	535	320	445	40
40-200	65	40	100	360	160	180	100	70	265	212	14	50	50	24	27	8	100	260	535	320	445	44
40-250			100	360	180	225	125	95	320	250	14	65	50	24	27	8	100	260	545	405	545	49,5
50-125			100	360	132	160	100	70	240	190	14	50	50	24	27	8	100	260	535	320	445	39,5
50-160			100	360	160	180	100	70	265	212	14	50	50	24	27	8	100	260	535	320	445	44
50-200	65	50	100	360	160	200	100	70	265	212	14	50	50	24	27	8	100	260	535	320	445	47
50-250			100	360	180	225	125	95	320	250	14	65	50	24	27	8	100	260	545	405	545	53
50-315	80		125	470	225	280	125	95	345	280	14	65	80	32	35,3	10	100	340	655	465	620	94,5
65-125			100	360	160	180	125	95	280	212	14	65	65	24	27	8	100	260	535	320	445	44,5
65-160			100	360	160	200	125	95	280	212	14	65	65	24	27	8	100	260	535	320	445	49
65-200	80	65	100	360	180	225	125	95	320	250	14	65	65	24	27	8	140	260	545	405	545	54
65-250			100	470	200	250	160	120	360	280	19	80	80	32	35	10	140	340	545	405	545	76,5
65-315			125	470	225	280	160	120	400	315	19	80	80	32	35	10	140	340	655	465	620	96
80-160			125	360	180	225	125	95	320	250	14	65	50	24	27	8	140	260	545	405	545	58
80-200			125	470	180	250	125	95	345	280	14	65	80	32	35	10	140	340	680	405	545	74
80-250	100	80	125	470	200	280	160	120	400	315	18	80	80	32	35,3	10	140	340	655	465	585	91
80-315			125	470	250	315	160	120	400	315	18	80	80	32	35,3	10	140	340	655	465	620	106
100-200			125	470	200	280	160	120	360	280	18	80	80	32	35,3	10	140	340	655	465	620	95
100-250			140	470	225	280	160	120	400	315	18	80	80	32	35,3	10	140	340	655	465	620	103
100-315	125	100	140	470	250	315	160	120	400	315	18	80	80	32	35,3	10	140	340	655	465	620	122
100-400			140	530	280	355	200	150	500	400	22	100	110	42	45,3	12	140	370	720	775	855	183,5
125-250			160	530	315	450	200	150	400	315	22	100	110	32	45,3	12	140	370	655	465	620	132
125-315	150	125	140	530	280	355	200	150	500	400	22	100	110	42	45,3	12	140	370	720	775	855	176
125-400			140	530	315	400	200	150	500	400	22	100	110	42	45,3	12	140	370	720	775	855	198
150-315			160	530	280	400	200	150	550	450	22	100	110	42	45,3	12	140	370	655	465	620	191
150-400	200	150	160	530	315	450	200	150	550	450	22	100	110	42	45,3	12	140	370	720	775	855	218,5
200-315			180	706	355	450	250	190	634	500	28	134	110	55	58,3	16	208	523	800	1200	1150	345
200-400	250	200	180	706	355	500	250	190	634	500	28	134	110	55	58,3	16	214	523	800	1200	1150	346
250-315			225	711	400	500	250	200	694	560	28	134	110	55	58,3	16	214	528	800	1200	1070	401,5
250-400	300	250	225	706	400	550	250	200	694	560	28	134	110	55	58,3	16	220	523	800	1200	1120	393

DIMENSIONS (mm)				
DN	D	K	holes	
			n°	Ø
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	4	18
80	200	160	8	18
100	220	180	8	18
125	250	210	8	18
150	285	240	8	23
200	340	295	8	23
250	395	350	12	23
300	445	400	12	23

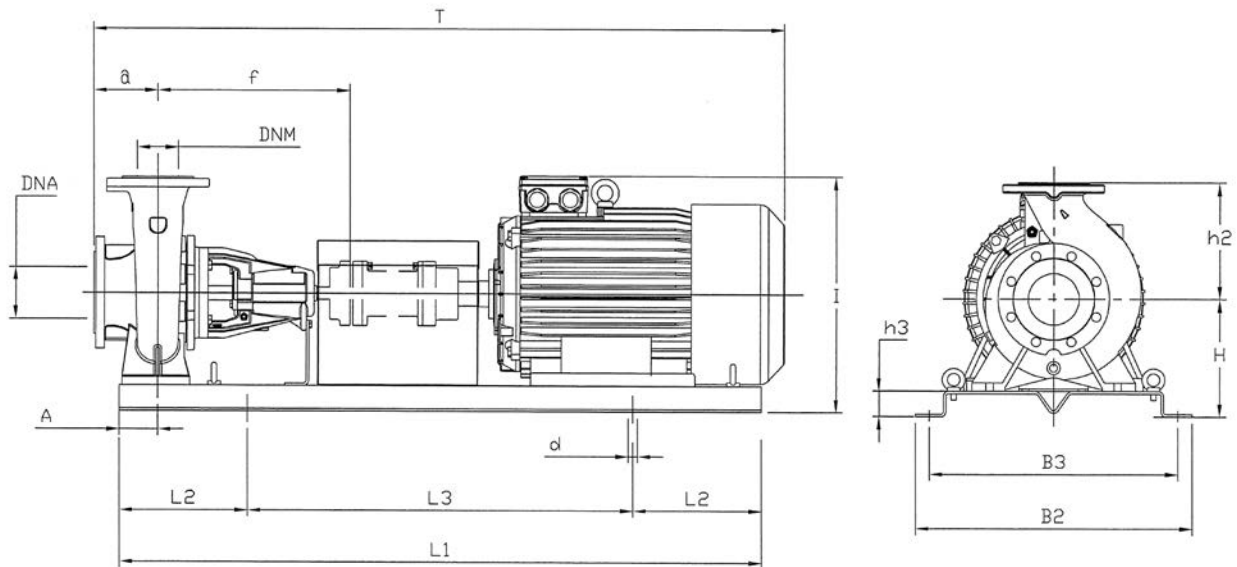




TYPE	kW	Motor Size	DIMENSIONS (mm)																Kg		
			DNA	DNM	a	f	H	h2	h3	L1	L2	L3	B2	B3	A	d	T	I			
32-160C	1,5	90S	50	32	80	360	182	160	50	800	130	540	360	320	60	18	855	342	82,1		
32-160B	2,2	90L			80	360	182	160	50	900	150	600	390	350	60	18	920	342	87,7		
32-160A	3	100L			80	360	182	160	50	900	150	600	390	350	60	18	920	362	96,7		
32-160A	4	112M			80	360	182	160	50	900	150	600	390	350	60	18	940	375	104,7		
32-200C	4	112M			80	360	210	180	50	900	150	600	390	350	60	18	940	403	108,7		
32-200B	5,5	132S			80	360	210	180	50	1000	170	660	450	400	60	22	1020	433	116,1		
32-200A	7,5	132S			80	360	210	180	50	1000	170	660	450	400	60	22	1020	433	144,3		
32-250C	11	160M			100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	207,3		
32-250B	11	160M			100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	207,3		
32-250A	15	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	219,3				
40-125C	1,5	90S	65	40	80	360	162	140	50	800	130	540	360	320	60	18	855	317	82,2		
40-125C	2,2	90L			80	360	162	140	50	900	150	600	390	350	60	18	920	317	87,8		
40-125B	2,2	90L			80	360	162	140	50	900	150	600	390	350	60	18	920	317	87,8		
40-125B	3	100L			80	360	162	140	50	900	150	600	390	350	60	18	920	342	96,8		
40-125A	3	100L			80	360	162	140	50	900	150	600	390	350	60	18	920	342	96,8		
40-160B	3	100L			80	360	182	160	50	900	150	600	390	350	60	18	920	362	99,8		
40-160B	4	112M			80	360	182	160	50	900	150	600	390	350	60	18	940	375	107,8		
40-160A	4	112M			80	360	182	160	50	900	150	600	390	350	60	18	940	375	107,8		
40-160A	5,5	132S			80	360	182	160	50	1000	170	660	450	400	60	22	1020	405	115,2		
40-160AP	5,5	132S			80	360	182	160	50	1000	170	660	450	400	60	22	1020	405	115,2		
40-200B	5,5	132S			100	360	210	180	50	1000	170	660	450	400	60	22	1040	433	119,2		
40-200B	7,5	132S			100	360	210	180	50	1000	170	660	450	400	60	22	1040	433	147,4		
40-200A	7,5	132S			100	360	210	180	50	1000	170	660	450	400	60	22	1040	433	147,4		
40-200A	11	160M			100	360	210	180	50	1120	190	740	490	440	60	22	1168	475	198,4		
40-200 AP	7,5	132S			100	360	210	180	50	1000	170	660	450	400	60	22	1040	433	147,4		
40-200 AP	11	160M			100	360	210	180	50	1120	190	740	490	440	60	22	1168	475	198,4		
40-250C	11	160M			100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	208,9		
40-250B	11	160M			100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	208,9		
40-250B	15	160M			100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	220,9		
40-250A	15	160M			100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	220,9		
40-250A	18,5	160L			100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	238,9		
40-250BM	18,5	160L			100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	238,9		
40-250AM	22	180M			100	360	230	225	50	1250	205	840	540	490	75	22	1275	510	297,3		
50-125B	3	100L			65	50	100	360	182	160	50	900	150	600	390	350	60	18	940	362	99,7
50-125A	4	112M	100	360			182	160	50	900	150	600	390	350	60	18	960	375	107,7		
50-160B	5,5	132S	100	360			210	180	50	1000	170	660	450	400	60	22	1040	433	119,6		
50-160A	7,5	132S	100	360			210	180	50	1000	170	660	450	400	60	22	1040	433	147,8		
50-200C	11	160M	100	360			210	200	50	1120	190	740	490	440	60	22	1168	475	201,8		
50-200B	11	160M	100	360			210	200	50	1120	190	740	490	440	60	22	1168	475	201,8		
50-200A	15	160M	100	360			210	200	50	1120	190	740	490	440	60	22	1168	475	213,8		
50-250C	15	160M	100	360			230	225	50	1250	205	840	540	490	75	22	1275	495	224,8		
50-250B	18,5	160L	100	360			230	225	50	1250	205	840	540	490	75	22	1275	495	242,8		
50-250A	22	180M	100	360			230	225	50	1250	205	840	540	490	75	22	1275	510	301,2		
50-315DN	37	200L	80				125	470	275	280	50	1400	230	940	610	550	75	26	1455	585	415,0
50-315CN	45	225M					125	470	275	280	50	1400	230	940	610	550	75	26	1500	605	465,8
50-315BN	55	250M			125	470	310	280	85	1600	270	1060	660	600	75	26	1650	710	611,8		
50-315AN	75	280S			125	470	310	280	85	1800	300	1200	730	670	75	26	1850	770	762,6		


# MA-MAX EN 733 ~ 2900 r.p.m.

TYPE	kW	Motor Size	DIMENSIONS (mm)																Kg
			DNA	DNM	a	f	H	h2	h3	L1	L2	L3	B2	B3	A	d	T	I	
65-125B	5,5	132S	80	65	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433	121,4
65-125A	7,5	132S			100	360	210	180	50	1000	170	660	450	400	60	22	1040	433	149,6
65-160C	11	160M			100	360	210	200	50	1120	190	740	490	440	60	22	1168	475	205,1
65-160B	11	160M			100	360	210	200	50	1120	190	740	490	440	60	22	1168	475	205,1
65-160A	15	160M			100	360	210	200	50	1120	190	740	490	440	60	22	1168	475	217,1
65-200C	15	160M			100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	227,5
65-200B	18,5	160L			100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	245,5
65-200A	22	180M			100	360	230	225	50	1250	205	840	540	490	75	22	1290	510	303,3
65-250B	30	200L			100	470	250	250	50	1400	230	940	610	550	90	26	1470	560	377,8
65-250A	37	200L			100	470	250	250	50	1400	230	940	610	550	90	26	1470	560	397,8
65-315CN	55	250M			125	470	310	280	85	1600	270	1060	660	600	90	26	1645	710	614,2
65-315BN	75	280S			125	470	310	280	85	1800	300	1200	730	670	90	26	1835	770	765,0
65-315AN	90	280M	125	470	310	280	85	1800	300	1200	730	670	90	26	1835	770	839,2		
80-160E	11	160M	100	80	125	360	230	225	50	1250	205	840	540	490	75	22	1300	495	220,8
80-160D	11	160M			125	360	230	225	50	1250	205	840	540	490	75	22	1300	495	220,8
80-160C	15	160M			125	360	230	225	50	1250	205	840	540	490	75	22	1300	495	232,8
80-160B	18,5	160L			125	360	230	225	50	1250	205	840	540	490	75	22	1300	495	250,8
80-160A	22	180M			125	360	230	225	50	1250	205	840	540	490	75	22	1315	510	308,7
80-200B	30	200L			125	470	230	250	50	1400	230	940	610	550	75	26	1495	560	376,7
80-200A	37	200L			125	470	230	250	50	1400	230	940	610	550	75	26	1495	560	396,7
80-250B	45	225M			125	470	250	280	50	1400	230	940	610	550	90	26	1540	605	464,5
80-250A	55	250M			125	470	285	280	85	1600	270	1060	660	600	90	26	1645	710	610,5
80-315BN	90	280M			125	470	335	315	85	1800	300	1200	730	670	90	26	1835	770	850,5
80-315AN	110	315S			125	470	405	315	120	2000	300	1400	790	750	90	22	2020	925	1233
100-200B	45	225M			125	100	125	470	250	280	50	1400	230	940	610	550	90	26	1540
100-200A	55	250M	125	470			285	280	85	1600	270	1060	660	600	90	26	1645	710	617,5
100-250C	55	250M	140	470			310	280	85	1600	270	1060	660	600	90	26	1660	710	625,5
100-250C	75	280S	140	470			310	280	85	1800	300	1200	730	670	90	26	1850	770	776,3
100-250B	75	280S	140	470			310	280	85	1800	300	1200	730	670	90	26	1850	770	776,3
100-250A	90	280M	140	470			310	280	85	1800	300	1200	730	670	90	26	1850	770	850,5





TYPE	kW	Motor Size	DIMENSIONS (mm)																	Kg
			DNA	DNM	a	f	H	h2	h3	L1	L2	L3	B2	B3	A	d	T	I		
32-160C	0,37	71M	50	32	80	360	182	160	50	800	130	540	360	320	60	18	820	342	59,4	
32-160B	0,37	71M			80	360	182	160	50	800	130	540	360	320	60	18	820	342	59,4	
32-160A	0,55	80M			80	360	182	160	50	800	130	540	360	320	60	18	820	342	59,1	
32-200C	0,75	80M			80	360	210	180	50	800	130	540	360	320	60	18	820	390	75,1	
32-200B	1,1	90S			80	360	210	180	50	800	130	540	360	320	60	18	855	390	88,1	
32-200A	1,1	90S			80	360	210	180	50	800	130	540	360	320	60	18	855	390	88,1	
32-250C	1,5	90S			100	360	230	225	50	1000	170	660	450	400	75	22	1025	455	106,7	
32-250B	1,5	90S			100	360	230	225	50	1000	170	660	450	400	75	22	1025	455	106,7	
32-250A	2,2	100L			100	360	230	225	50	1000	170	660	450	400	75	22	1025	455	112,7	
40-125C	0,37	71M			65	40	80	360	162	140	50	800	130	540	360	320	60	18	820	302
40-125B	0,37	71M	80	360			162	140	50	800	130	540	360	320	60	18	820	302	59,5	
40-125A	0,55	80M	80	360			162	140	50	800	130	540	360	320	60	18	820	307	59,2	
40-160B	0,55	80M	80	360			182	160	50	800	130	540	360	320	60	18	820	342	62,2	
40-160A	0,75	80M	80	360			182	160	50	800	130	540	360	320	60	18	820	342	74,2	
40-160AP	0,75	80M	80	360			182	160	50	800	130	540	360	320	60	18	820	342	74,2	
40-160AP	1,1	90S	80	360			182	160	50	800	130	540	360	320	60	18	855	342	87,2	
40-200B	1,1	90S	100	360			210	180	50	900	150	600	390	350	60	18	940	390	93,8	
40-200A	1,1	90S	100	360			210	180	50	900	150	600	390	350	60	18	940	390	93,8	
40-200A	1,5	90S	100	360			210	180	50	900	150	600	390	350	60	18	940	390	98,8	
40-200AP	1,1	90S	100	360	210	180	50	900	150	600	390	350	60	18	940	390	93,8			
40-200AP	1,5	90S	100	360	210	180	50	900	150	600	390	350	60	18	940	390	98,8			
40-250C	1,5	90S	100	360	230	225	50	1000	170	660	450	400	75	22	1025	455	108,3			
40-250B	2,2	100L	100	360	230	225	50	1000	170	660	450	400	75	22	1025	455	114,3			
40-250A	2,2	100L	100	360	230	225	50	1000	170	660	450	400	75	22	1025	455	114,3			
50-125B	0,55	80M	65	50	100	360	182	160	50	800	130	540	360	320	60	18	840	342	62,1	
50-125A	0,75	80M			100	360	182	160	50	800	130	540	360	320	60	18	840	342	74,1	
50-160B	0,75	80M			100	360	210	180	50	800	130	540	360	320	60	18	840	390	78,6	
50-160A	1,1	90S			100	360	210	180	50	800	130	540	360	320	60	18	875	390	91,6	
50-200C	1,1	90S			100	360	210	200	50	900	150	600	390	350	60	18	940	410	97,2	
50-200B	1,5	90S			100	360	210	200	50	900	150	600	390	350	60	18	940	410	102,2	
50-200A	1,5	90S			100	360	210	200	50	900	150	600	390	350	60	18	940	410	102,2	
50-250C	2,2	100L			100	360	230	225	50	1000	170	660	450	400	75	22	1025	455	118,2	
50-250B	3	100L			100	360	230	225	50	1000	170	660	450	400	75	22	1025	455	122,2	
50-250A	4	112M			100	360	230	225	50	1000	170	660	450	400	75	22	1025	455	128,2	
50-315C	5,5	132S	80	50	125	470	275	280	50	1120	190	740	490	440	75	22	1170	555	200,1	
50-315B	7,5	132M			125	470	275	280	50	1120	190	740	490	440	75	22	1200	555	186,6	
50-315A	11	160M			125	470	275	280	50	1250	205	840	540	490	75	22	1303	555	260,1	

# 4MA-4MAX EN 733 ~ 1450 r.p.m.


TYPE	kW	Motor Size	DIMENSIONS (mm)																
			DNA	DNM	a	f	H	h2	h3	L1	L2	L3	B2	B3	A	d	T	I	
65-125B	0,75	80M	80	65	100	360	210	180	50	800	130	540	360	320	60	18	840	390	80,4
65-125A	1,1	90S			100	360	210	180	50	800	130	540	360	320	60	18	875	390	93,4
65-160C	1,5	90S			100	360	210	200	50	900	150	600	390	350	60	18	940	410	105,5
65-160B	1,5	90S			100	360	210	200	50	900	150	600	390	350	60	18	940	410	105,5
65-160A	2,2	100L			100	360	210	200	50	900	150	600	390	350	60	18	940	410	111,5
65-200C	2,2	100L			100	360	230	225	50	1120	190	740	490	440	75	22	1145	455	124,8
65-200B	3	100L			100	360	230	225	50	1120	190	740	490	440	75	22	1145	455	128,8
65-200A	3	100L			100	360	230	225	50	1120	190	740	490	440	75	22	1145	455	128,8
65-250B	4	112M			100	470	250	250	50	1120	190	740	490	440	90	22	1130	500	159,0
65-250B	5,5	132S			100	470	250	250	50	1120	190	740	490	440	90	22	1175	500	183,0
65-250A	5,5	132S			100	470	250	250	50	1120	190	740	490	440	90	22	1175	500	183,0
65-315CM	7,5	132M			125	470	275	280	50	1250	205	840	540	490	90	22	1285	555	194,0
65-315BM	11	160M			125	470	275	280	50	1250	205	840	540	490	90	22	1343	555	262,5
65-315AM	11	160M			125	470	275	280	50	1250	205	840	540	490	90	22	1343	555	262,5
80-160E	1,1	90S	100	80	125	360	230	225	50	1000	170	660	450	400	75	22	1050	455	115,1
80-160D	1,5	90S			125	360	230	225	50	1000	170	660	450	400	75	22	1050	455	120,1
80-160C	1,5	90S			125	360	230	225	50	1000	170	660	450	400	75	22	1050	455	120,1
80-160B	2,2	100L			125	360	230	225	50	1000	170	660	450	400	75	22	1050	455	126,1
80-160A	3	100L			125	360	230	225	50	1000	170	660	450	400	75	22	1050	455	130,1
80-200B	4	112M			125	470	230	250	50	1120	190	740	490	440	75	22	1170	480	157,8
80-200A	5,5	132S			125	470	230	250	50	1120	190	740	490	440	75	22	1200	480	181,8
80-250B	5,5	132S			125	470	250	280	50	1250	205	840	540	490	90	22	1285	530	203,8
80-250A	7,5	132M			125	470	250	280	50	1250	205	840	540	490	90	22	1285	530	190,3
80-315B	11	160M			125	470	300	315	50	1250	205	840	540	490	90	22	1343	615	273,8
80-315A	15	160L			125	470	300	315	50	1400	230	940	610	550	90	26	1435	615	305,8
100-200B	5,5	132S			125	470	250	280	50	1120	190	740	490	440	90	22	1200	530	205,8
100-200A	7,5	132M			125	470	250	280	50	1120	190	740	490	440	90	22	1240	530	192,3
100-250E	7,5	132M			140	470	275	280	50	1250	205	840	540	490	90	22	1300	555	205,3
100-250D	7,5	132M	140	470	275	280	50	1250	205	840	540	490	90	22	1300	555	205,3		
100-250D	11	160M	140	470	275	280	50	1250	205	840	540	490	90	22	1358	555	273,8		
100-250A	11	160M	140	470	275	280	50	1250	205	840	540	490	90	22	1358	555	273,8		
100-315B	15	160L	140	470	300	315	50	1400	230	940	610	550	90	26	1450	615	327,7		
100-315A	18,5	180M	140	470	300	315	50	1400	230	940	610	550	90	26	1450	615	348,3		
100-400C	22	180L	140	530	365	355	85	1600	270	1060	660	600	110	26	1630	720	469,5		
100-400B	30	200L	140	530	365	355	85	1600	270	1060	660	600	110	26	1630	720	540,8		
100-400A	37	225S	140	530	365	355	85	1600	270	1060	660	600	110	26	1630	720	554,3		
125-250B	11	160M	150	125	140	470	300	355	50	1250	205	840	540	490	90	22	1358	655	308,1
125-250A	15	160L			140	470	300	355	50	1400	230	940	610	550	90	26	1450	655	340,1
125-315C	22	180L			140	530	365	355	85	1600	270	1060	660	600	110	26	1630	720	464,4
125-315B	30	200L			140	530	365	355	85	1600	270	1060	660	600	110	26	1630	720	535,8
125-315A	37	225S			140	530	365	355	85	1600	270	1060	660	600	110	26	1630	720	549,3
125-400C	45	225M			140	530	400	400	85	1600	270	1060	660	600	110	26	1630	800	659,2
125-400B	55	250M			140	530	400	400	85	1600	270	1060	660	600	110	26	1630	800	756,0
125-400A	75	280S			140	530	400	400	85	1800	300	1200	730	670	110	26	1830	805	939,4
150-315D	30	200L	200	150	160	530	365	400	85	1800	300	1200	730	670	110	26	1850	765	570,7
150-315C	37	225S			160	530	365	400	85	1800	300	1200	730	670	110	26	1850	765	584,2
150-315B	45	225M			160	530	365	400	85	1800	300	1200	730	670	110	26	1850	765	672,1
150-315A	55	250M			160	530	365	400	85	1800	300	1200	730	670	110	26	1850	765	768,9
150-400C	75	280S			160	530	400	450	85	1800	300	1200	730	670	110	26	1850	850	951,4
150-400B	75	280S			160	530	400	450	85	1800	300	1200	730	670	110	26	1850	850	962,8
150-400A	90	280M			160	530	400	450	85	1800	300	1200	730	670	110	26	1850	850	1057,8


# MN Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL			
	MN32-160C, MN32-160B, MN32-160A, MN40-125C, MN40-125B, MN40-125A	20mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	Ceramic Graphite NBR	Ceramic Graphite EPDM	- - -	SiC SiC EPDM	SiC SiC FKM
	MN40-250BM, MN40-250AM	28mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	Ceramic Graphite EPDM	- - -	- - -	SiC SiC EPDM	SiC SiC FKM
	MN32-200C, MN32-200B1, MN32-200B, MN32-200A1, MN32-200A, MN32-250C, MN32-250B, MN32-250A, MN40-160B, MN40-160A, MN40-160AP, MN40-200B1, MN40-200B, MN40-200A1, MN40-200A, MN40-200AP, MN40-250C, MN40-250B, MN40-250A, MN50-125B, MN50-125A, MN50-160B1, MN50-160B, MN50-160A1, MN50-160A, MN50-200C, MN50-200B, MN50-200A, MN50-250C, MN50-250B, MN50-250A, MN65-125B1, MN65-125B, MN65-125A1, MN65-125A, MN65-160C, MN65-160B, MN65-160A, MN65-200C, MN65-200B, MN65-200A, MN80-160E, MN80-160D, MN80-160C, MN80-160B, MN80-160A	28mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	Ceramic Graphite NBR	Ceramic Graphite EPDM	Ceramic Graphite FKM	SiC SiC EPDM	SiC SiC FKM
	MN65-250B, MN65-250A, MN80-200B, MN80-200A, MN100-160B, MN100-160A	40mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	CrNi-steel Graphite NBR	CrNi-steel Graphite EPDM	CrNi-steel Graphite FKM	SiC SiC EPDM	SiC SiC FKM


BEARINGS	PUMP MODEL	TYPE	
	3-MN32-200C, MN40-160B, 3-MN40-160A, MN50-125B, 3-MN50-125A	6204-ZZ	6206-ZZ C3
	MN32-160C, MN32-160B, MN32-160A, MN40-125C, MN40-125B, MN40-125A	6205-ZZ C3	6203-ZZ
	1-MN32-200C, MN32-200B1, MN32-200B, MN32-200A1, MN32-200A, MN32-250C, MN32-250B, 1-MN40-160A, MN40-160AP, MN40-200B1, MN40-200B, MN40-200A1, MN40-200A, MN40-200AP, MN40-250C, MN40-250B, 1-MN50-125A, MN50-160B1, MN50-160B, MN50-160A1, MN50-160A, MN50-200C, MN50-200B, MN65-125B1, MN65-125B, MN65-125A1, MN65-125A, MN65-160C, MN65-160B, MN80-160E, MN80-160D	6206-ZZ C3	6306-ZZ C3
	MN32-250A, MN40-250A, MN40-250BM, MN40-250AM, MN50-200A, MN50-250C, MN50-250B, MN50-250A, MN65-160A, MN65-200C, MN65-200B, MN65-200A, MN80-160C, MN80-160B, MN80-160A	6308-ZZ C3	6309-ZZ C3
	MN65-250B, MN65-250A, MN80-200B, MN80-200A, MN100-160B, MN100-160A	6309-ZZ C3	6310-ZZ C3


# MNG Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL			
	MNG80-250B, MNG80-250A, MNG100-200B, MNG100-200A, MNG100-250C, MNG100-250B, MNG100-250A	45mm	<i>Rotating face</i> <i>Stationary face</i> <i>Elastomer</i>	CrNi-steel Graphite NBR	CrNi-steel Graphite EPDM	CrNi-steel Graphite FKM	SiC SiC EPDM	SiC SiC FKM

MOTOR BEARINGS	PUMP MODEL	TYPE	
	MNG80-250B, MNG100-200B	6313-ZZ C3	6313-ZZ C3
	MNG80-250A, MNG100-200A, MNG100-250C, MNG100-250B, MNG100-250A	6314-ZZ C3	6314-ZZ C3

# MA-4MA Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL				
	MA32-160C, MA32-160B, MA32-160A, MA40-125C, MA40-125B, MA40-125A	20mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	Ceramic Graphite NBR	Ceramic Graphite EPDM	- - -	SiC SiC EPDM	SiC SiC FKM	
	MA40-250BM, MA40-250AM	28mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	Ceramic Graphite EPDM	- - -	- - -	SiC SiC EPDM	SiC SiC FKM	
	MA32-200C, MA32-200B, MA32-200A, MA32-250C, MA32-250B, MA32-250A, MA40-160B, MA40-160A, MA40-200B, MA40-200A, MA40-250C, MA40-250B, MA40-250A, MA50-125B, MA50-125A, MA50-160B, MA50-160A, MA50-200C, MA50-200B, MA50-200A, MA50-250C, MA50-250B, MA50-250A, MA65-125B, MA65-125A, MA65-160C, MA65-160B, MA65-160A, MA65-200C, MA65-200B, MA65-200A, MA80-160E, MA80-160D, MA80-160C, MA80-160B, MA80-160A	28mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	Ceramic Graphite NBR	Ceramic Graphite EPDM	Ceramic Graphite FKM	SiC SiC EPDM	SiC SiC FKM	
	4MA50-315C, 4MA50-315B, 4MA50-315A, MA65-250B, MA65-250A, 4MA65-315CM, 4MA65-315BM, 4MA65-315AM, MA80-200B, MA80-200A, 4MA80-315B, 4MA80-315A, 4MA100-315	40mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	CrNi-steel Graphite NBR	CrNi-steel Graphite EPDM	CrNi-steel Graphite FKM	SiC SiC EPDM	SiC SiC FKM	
	MA50-315DN, MA50-315CN, MA50-315BN, MA50-315AN, MA65-315CN, MA65-315BN, MA65-315AN, MA80-315BN, MA80-315AN	40mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	SiC SiC EPDM	- - -	- - -	- - -	SiC SiC FKM	
	MA80-250B, MA80-250A, MA100-200B, MA100-200A, MA100-250C, MA100-250B, MA100-250A, 4MA100-250E, 4MA125-250B, 4MA125-250A	45mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	CrNi-steel Graphite NBR	CrNi-steel Graphite EPDM	CrNi-steel Graphite FKM	SiC SiC EPDM	SiC SiC FKM	
	4MA100-400C, 4MA100-400B, 4MA100-400A, 4MA125-315C, 4MA125-315B, 4MA125-315A, 4MA125-400C, 4MA125-400B, 4MA125-400A, 4MA150-315C, 4MA150-315B, 4MA150-315A, 4MA150-400B, 4MA150-400A	55mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	Graphite SiC FKM	- - -	- - -	SiC SiC EPDM	SiC SiC FKM	
	4MA200-315D, 4MA200-315C, 4MA200-315B, 4MA200-315A, 4MA200-400C, 4MA200-400B, 4MA200-400A, 4MA250-315C, 4MA250-315B, 4MA250-315A, 4MA250-400D, 4MA250-400C, 4MA250-400B, 4MA250-400A	70mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	Graphite SiC FKM	- - -	- - -	SiC SiC EPDM	SiC SiC FKM	

PUMP BEARINGS	PUMP MODEL	TYPE	
	MA32-160C, MA32-160B, MA32-160A, MA32-200C, MA32-200B, MA32-200A, MA32-250C, MA32-250B, MA32-250A, MA40-125C, MA40-125B, MA40-125A, MA40-160B, MA40-160A, MA40-200B, MA40-200A, MA40-250C, MA40-250B, MA40-250A, MA40-250BM, MA40-250AM, MA50-125B, MA50-125A, MA50-160B, MA50-160A, MA50-200C, MA50-200B, MA50-200A, MA50-250C, MA50-250B, MA50-250A, MA65-125B, MA65-125A, MA65-160C, MA65-160B, MA65-160A, MA65-200C, MA65-200B, MA65-200A, MA80-160E, MA80-160D, MA80-160C, MA80-160B, MA80-160A	6306-ZZ C3	6306-ZZ C3
	4MA50-315, MA65-250B, MA65-250A, 4MA65-315CM, 4MA65-315BM, 4MA65-315AM, MA80-200B, MA80-200A, 4MA80-315B, 4MA80-315A, 4MA100-315C, 4MA100-315B, 4MA100-315A	3208-ZZ C3	3208-ZZ C3
	MA50-315DN, MA50-315CN, MA50-315BN, MA50-315AN, MA65-315CN, MA65-315BN, MA65-315AN, MA80-250B, MA80-250A, MA80-315BN, MA80-315AN, MA100-200B, MA100-200A, MA100-250C, MA100-250B, MA100-250A, 4MA100-250E, 4MA125-250B, 4MA125-250A	6209-ZZ C3	6309-ZZ C3
	4MA100-400C, 4MA100-400B, 4MA100-400A, 4MA125-315C, 4MA125-315B, 4MA125-315A, 4MA125-400C, 4MA125-400B, 4MA125-400A, 4MA150-315C, 4MA150-315B, 4MA150-315A, 4MA150-400A, 4MA150-400B	6211-ZZ C3	6311-ZZ C3
	4MA200-315D, 4MA200-315C, 4MA200-315B, 4MA200-315A, 4MA200-400C, 4MA200-400B, 4MA200-400A, 4MA250-315C, 4MA250-315B, 4MA250-315A, 4MA250-400D, 4MA250-400C, 4MA250-400B, 4MA250-400A	6313-ZZ C3	6313-ZZ C3